

PIONEER 10 & 11  
PLASMA ANALYZER DATA  
72-012A-00F,13C,13D,13E  
73-019A-00E,13B,13C,13D

412

PIONEER 10  
TRAJECTORY EPHEMERIS  
72-012A-00H

PIONEER 11  
TRAJECTORY EPHEMERIS  
73-019A-00G

PIONEER 10  
TRAJECTORY EPHEMERIS  
72-012A-00H

THIS DATA SET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE IS 9-TRACK, 6250 BPI, ASCII, WITH A VAX STANDARD LABEL, AND 39 FILES OF DATA. THE TAPE WAS CREATED ON AN IBM 360 COMPUTER. THE D AND C NUMBERS ALONG WITH THE TIME SPAN IS AS FOLLOWS:

D#	C#	TIME SPANS
---	---	-----
D#85883	C#29141	04/06/73-01/01/90

VOL LAB= TRJP10

# Temporary Update to the Pioneer-10 and -11 Plasma Data Documentation

Susan Kayser

November 11, 1987

## 1 Introduction

The Pioneer-10 and -11 Plasma Analyzer Experiment data sets have been expanded by the inclusion of more recent data—all the data available as of 30 June, 1987. This note updates the previous document, *The Plasma Data from the Pioneer-10 and -11 Plasma Analyzer Experiment*, Document ID number SAR 20/84-058-0096. In case of any questions, contact:

~~Dr. Susan Kayser  
XXXXXXXXXXXXX  
NASA/Ames Research Center  
Mail Stop 2453  
Moffett Field, CA 94033  
(415) 694-6001~~

Dr. John F. Cooper  
Hughes STX Corporation  
Code 633.9  
NASA/Goddard Space Flight Center  
Greenbelt, MD 20771  
(301)441-4188

~~SPAN Address: NSSDCA::KAYSER or HAL::KAYSER  
XX~~

internet: jcooper@nssdca.gsfc.nasa.gov

## 2 The Data

The Pioneer-10 data sets now cover the interval from spacecraft launch on 24 April, 1972 through 1986, or 72109–86265. The Pioneer-11 data are from launch on 6 April, 1973 until 28 August, 1982 (the instrument was non-operational between 13 April, 1975 and 30 November, 1977), and from 1 January, 1984 until 9 May, 1986, or 73111–75012, 77335–82240, and 84001–86129. The rest of the 1982, 1983, and 1986 data for Pioneer-11 will be available soon.

At the large heliocentric distances to which the spacecraft have attained, the solar wind densities are very low, and the least-squares fits for the parameters have a higher percentage of bad fits in the recent data. The most frequent problem due to the scarcity of particles is that the instrumental noise overwhelms the signal, leading to spurious velocities over 800 km/s, or flow angles of more than 45° from the radial direction. Usually, more than one parameter is bad when such a spurious fit occurs. As with the earlier data sets, bad fits are retained but flagged with a value of 100.

The accuracy of the velocities is still about ±20 km/s. For Pioneer-10, the Sun has appeared too faint to trigger the Sun Sensors since 15 November, 1983, and the spacecraft attitude is now determined by alternative methods, leading to uncertainties of perhaps ±2°. Temperatures are good to about 15%, but have uncertainties of ±4000 K below 15,000 K. Densities are reliable to about 12%, with the uncertainty increasing to a factor of 2 below .005/cc (at which level, fits are often not possible).

DUMP OF TAPE KM2001

Parcel 10  
D85883 / C29141  
C80673-010190  
040673-

INPUT TAPE KM2001 ON FTD  
DATA INPUT 1-5 NR 39 GR 2 1-2 SR 5 1 2 GR 35-1 2

FILE INPUT DATA RECORDS MAX. SIZE READ ERROR SUMMARY INPUT RETRIES  
RECS. INPUT RECS. PERM ZERO B SHORT UNDEF. #RECS. TOTAL#

FILE 2 RECORD 2 LENGTH 512 BYTES

1	( 1 )	43435344	35644630	30303031	30303031	30303031	43435344	33565330	30303032	4052482A
2	( 4 )	30303034	30303030	564F65F	494454E	543A0955	53415F4E	4193413F	4E305344	3F503130
3	( 8 )	545F3130	30313030	3333564F	4C6F4352	45415449	4F4E5F44	09313939	312D3132	2D303630
4	( 12 )	3-33-348	45444955	485F444E	5345524F	4E3A5531	2F322D69	6F65562C	20392D74	72E16368
5	( 16 )	20203632	35302052	7069206D	61675E65	74617065	2F322D69	54854348	4E494341	4C5F434F
6	( 20 )	4E544143	543A0944	61766930	20572E20	4C6F7A65	3531C909	094E4133	412C416D	65732052
7	( 24 )	65736561	72636821	43656E74	65722028	4D61696C	70217323	342D3134	29303033	33094909
8	( 28 )	486F6666	65747420	65965666	64262020	20393030	33353030	30370909	09303034	30090905
9	( 32 )	456C6563	74726F6E	6963204D	61696C3A	39537061	6E204F60	4F5A4945	52303032	36F9F909
10	( 36 )	4989094E	4153414B	4199462F	44464F5A	49455234	30333169	49095465	6F6E553A	19093431
11	( 40 )	352D3630	342D3331	34373130	32320949	09050949	46545320	33313437	30303230	51524556
12	( 44 )	5F564F4C	530A0949	5E6F6E55	30303034	43435344	24244041	5E454552	4052482A	2A303031
13	( 48 )	43435344	33535330	30303032	4D52482A	2A303032	30303033	5E5E5E5E	5E5E5E5E	5E5E5E5E

FILE 2 RECORD 2 LENGTH 512 BYTES

1	( 1 )	44415441	5F534554	5F4E414B	4E3A0949	50454F4E	4E455221	31322054	52414F45	43C44F52
2	( 4 )	59204550	48454040	41524348	49564530	30373044	4154415F	534F5552	43453A09	0950695F
3	( 8 )	6E656570	20333024	7472615A	6565746F	61746120	77657280	2387538E	63726174	63642075
4	( 12 )	73696E67	21746865	20303037	39202120	20202020	20202020	20202020	20202020	204A6574
5	( 16 )	2056726F	70756673	696F6E63	4661626F	72792773	20284A54	42292022	445F7362	6C6E2050
6	( 20 )	72656369	73696F6E	33037338	20202020	20202020	20202020	20202020	20202020	5472616A
7	( 24 )	6563746F	72752021	20445454	52414A29	20636F6D	73757465	72207072	6F677261	6E21656C
8	( 28 )	656D656E	74283030	36306949	096F6621	74686520	4454C20	4E617669	6F6E2051	6E667477
9	( 32 )	64726263	53797374	65696261	78656663	65842841	29253030	30303030	30303030	69450504
10	( 36 )	52414A21	63726561	74657320	61207370	61636563	72516674	20657068	656D6572	7920696E
11	( 40 )	74656772	6174696E	67343446	31450949	74686521	65717561	74696F6E	206D6F74	696F6E20
12	( 44 )	666F7220	61206675	6C6C0273	6574206F	66206163	61656C65	72617469	6F6E5E5E	5E5E5E5E
13	( 48 )	5E5E5E5E								

FILE INPUT DATA RECORDS MAX. SIZE READ ERROR SUMMARY INPUT RETRIES  
RECS. INPUT RECS. PERM ZERO B SHORT UNDEF. #RECS. TOTAL#

FILE 5 RECORD 2 LENGTH 512 BYTES

1	( 1 )	30303034	33464630	30303035	30303030	30303031	43435344	33455330	30303034	4D52482A
2	( 4 )	2A303031	41444944	4E414B45	5D4E5353	44335132	36363630	34343430	50442424	4D410240
3	( 8 )	45524052	4B2A2A30	33314343	53333031	30320452	4B2A2A34	30323030	30343030	33305355
4	( 12 )	42495F4E	4140459A	49446176	69642057	2E2A4C6F	7A596572	30303039	5355424D	5F414444
5	( 16 )	41534120	416D6573	23266572	65617263	68204365	6E746572	20284D61	696C2053	746F7020
6	( 20 )	33342935	19406F66	66637474	20466940	5C654C20	20434120	20434120	30303030	30303030
7	( 24 )	09303033	39090945	6C556374	726F6569	63205D61	696C3A09	5370616E	204F6053	3A3A4CAF
8	( 28 )	30303035	494E4153	41404149	4C21444C	4E344944	52343033	30303030	30303030	686F6E60
9	( 32 )	3A450934	30342036	31343730	30323109	19151919	46545321	33317437	33317437	30303235
10	( 36 )	53554240	5F444154	453A4941	39393120	36302034	31333036	32544954	40433039	19454F52
11	( 40 )	464F5220	50494F4E	45455223	31302054	52414A4E	43544F52	59204550	48454D45	41524348
12	( 44 )	49564534	30353244	45534352	3A050946	6F726061	74216F6E	20746865	6E566572	20313121
13	( 48 )	7472616A	6563746F	72792164	6174696E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E

FILE 5 RECORD 2 LENGTH 512 BYTES

1	( 1 )	30303034	44415445	3A453179	39342031	32293036	30303036	09090909	30303034	43455344
2	( 4 )	24244041	52484552	4D52482A	2A303132	43435344	30303032	30303031	30303031	30303034
3	( 8 )	45494645	5F434C41	45494645	414B437A	24203049	4F4E4545	52303131	20545241	4A454354
4	( 12 )	45504845	4D552049	53204152	43084956	45303035	33524543	4F52445F	45595045	5F4E4140
5	( 16 )	4E5A2150	696F4F65	65722031	30207472	616A6A6A	746F7279	20736170	4E723030	3A33504E

( 21)	434F5244	5F414C47	4F524954	484D533A	52606565	7207745F	23726566	65726566	636F732C	28412920
( 24)	646E6A20	20422924	696E2053	7574706C	65606566	74617079	20496566	6F726061	74696F6E	25303055
( 28)	33524543	4F52445F	53545255	43545552	453A2346	53786564	204C656E	6774682C	206E6F20	636F6E74
( 32)	726F6620	5665656C	64733339	37305245	434F5244	5F4C454E	4754483A	09242031	206C6F67	6963616C
( 36)	2726563	6F726420	30233237	34382041	53434549	2627974	6573213D	20342070	68797369	63616C20
( 40)	7265636F	7264730E	30903434	09092020	31207460	79735963	61662472	65636F72	64263020	35313220
( 44)	626C6F63	58206279	7465732E	5E5E5F5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
( 48)	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E	5E5E5E5E
8	FILE	INPUT	DATA-RECORDS	MAX. SIZE	PERM ZERO B	SHORT	UNDEF.	# RECS.	INPUT-RETRIES	
9				512	0	0	0	0		
10	5	47								
11										
12	FILE	39	RECORD	1	LENGTH	048BYTES				
13	( 0)	454F4631	54524A50	31303737	412E4441	54202020	2054524A	5E313630	30303130	30303130
14	( 4)	30203032	30353624	30333335	36203030	30373335	4454346	49464531	31412020	20202020
15										
16	FILE	35	RECORD	0	LENGTH	048BYTES				
17	( 0)	454F4632	45303035	31323030	35313220	20202020	20202020	20202020	20202020	40202020
18	( 4)	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
19										
20	FILE	INPUT	DATA-RECORDS	MAX. SIZE	PERM ZERO B	SHORT	UNDEF.	# RECS.	INPUT-RETRIES	
21				0	0	0	0	0		
22	39	3								
23										
24	EQJ		DUMP STOPPED AFTER FILE	39		# OF PERMANENT READ ERRORS	0			
25										
26	START TIME	5/1/92	01:03:36		STOP TIME	5/4/92	01:15:58			
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										



PIONEER 10 & 11

PLASMA ANALYZER DATA

72-012A-00F, 00G, 13C, 13D, 13E, 13I, 13J, 13K

73-019A-00E, 00F, 13B, 13C, 13D, 13H , 13I, 13J

THESE DATA SETS HAVE BEEN RESTORED. THERE WERE ORIGINALLY FOUR 9-TRACK, 1600 BPI TAPES, WRITTEN IN BINARY. THERE ARE FOUR RESTORED TAPES. DR005962 AND DR005964 CONTAIN FIVE FILES OF DATA AND WERE CREATED ON AN IBM 360 COMPUTER. THE FIRST FILE IS THE FULL SUMMARY DATA RECORD, THE SECOND AND THE THIRD FILES ARE THE HOURLY AND DAILY AVERAGES RECORDS, THE FOURTH FILE IS THE TRAJECTORY RECORD, AND THE FIFTH FILE IS THE ATTITUDE RECORD. THE FOLLOWING TWO TAPES CONTAIN STANDARD LABELS, DR005963 AND DR005965. THE DATA ON THE ORIGINAL TAPES WERE IN VAX BACKUP FORMAT. THE DR TAPES ARE 3480 CARTRIDGES AND THE DS TAPES ARE 9-TRACK, 6250 BPI. THE ORIGINAL TAPES WERE RESTORED ON AN IBM 9021 COMPUTER. THE DR AND DS NUMBERS ALONG WITH THE CORRESPONDING D NUMBERS AND TIME SPANS ARE AS FOLLOWS:

PIONEER 10

72-012A-00F, 00G, 13C, 13D, 13E, 13I, 13J, 13K

DR#	DS#	DD#	FILES	TIME SPAN
DR005962	DS005962	D063220	1	04/18/72 - 12/15/86 (13C)
			2	04/18/72 - 12/13/86 (13D)
			3	04/18/72 - 11/04/86 (13E)
			4	03/24/72 - 08/28/87 (00F)
			5	04/15/72 - 01/25/85 (00F)
DR005963	DS005963	D077876	1	04/15/72 - 09/07/88 (13I)
			2	04/18/72 - 07/26/88 (13J)
			3	04/18/72 - 08/05/88 (13K)
			4	03/24/72 - 01/13/89 (00G)
			5	04/18/72 - 08/08/88 (00G)

PIONEER 11

73-019A-00E, 00F, 13B, 13C, 13D, 13H , 13I, 13J

DR#	DS#	DD#	FILES	TIME SPAN
DR005964	DS005964	D063221	1	04/21/73 - 05/08/86 (13B)
			2	04/21/73 - 05/04/86 (13C)
			3	04/21/73 - 04/17/86 (13D)
			4	04/11/73 - 10/22/87 (00E)
			5	04/14/73 - 09/20/81 (00E)
DR005965	DS005965	D077877	1	04/14/73 - 09/28/87 (13H)
			2	04/21/73 - 08/08/88 (13I)
			3	04/21/73 - 08/08/88 (13J)
			4	04/11/73 - 01/20/89 (00F)
			5	04/21/73 - 08/08/88 (00F)

REQ. AGENT  
GLS  
SAR  
SAR

RAND NO.  
V0255  
V0380

ACQ. AGENT  
HKH  
HKH  
SEK

PIONEER 10 & 11

PLASMA ANALYZER DATA

72-012A-00F,00G,13C,13D,13E,13I,13J,13K

73-019A-00E,00F,13B,13C,13D,13H,13I,13J

THIS DATA SET CATALOG CONSISTS OF 4 MAGNETIC TAPES. THE TAPES ARE 9-TRACK, 1600 BPI, AND BINARY. D-63220 AND D-63221 CONTAIN FIVE FILES OF DATA AND WERE CREATED ON AN IBM 360 COMPUTER. THE FIRST FILE IS THE FULL SUMMARY DATA RECORD, THE SECOND AND THE THIRD FILES ARE THE HOURLY AND DAILY AVERAGES RECORDS, THE FOURTH FILE IS THE TRAJECTORY RECORD, AND THE FIFTH FILE IS THE ATTITUDE RECORD. D-77876 AND D-77877 HAVE THREE FILES OF DATA IN VAX BACKUP FORMAT, WHICH WHEN TAKEN OUT OF THAT FORMAT HAVE FIVE FILES OF DATA. THESE TAPES WERE CREATED ON AN <sup>IBM</sup>~~AMERICAN~~ COMPUTER. THE FOLLOWING LISTS THE D AND C NUMBERS ALONG WITH THE TIME COVERAGE OF EACH DATA SET.

PIONEER 10

<u>D#</u>	<u>C#</u>	<u>TIME COVERAGE OF EACH DATA SET</u>
D-63220	C-24062	FILE 1: 04/18/72 - 12/15/86 (13C) FILE 2: 04/18/72 - 12/13/86 (13D) FILE 3: 04/18/72 - 11/04/86 (13E) FILE 4: 03/24/72 - 08/28/87 (00F) FILE 5: 04/15/72 - 01/25/85 (00F)
D-77876		FILE 1: 04/18/72 - 12/15/86 (13I) FILE 2: 04/18/72 - 12/13/86 (13J) FILE 3: 04/18/72 - 11/04/86 (13K) FILE 4: 03/24/72 - 08/28/87 (00G) FILE 5: 04/15/72 - 01/25/85 (00G)

PIONEER 11

<u>D#</u>	<u>C#</u>	<u>TIME COVERAGE OF EACH DATA SET</u>
D-63221	C-24063	FILE 1: 04/21/73 - 05/08/86 (13B) FILE 2: 04/21/73 - 05/04/86 (13C) FILE 3: 04/21/73 - 04/17/86 (13D) FILE 4: 04/11/73 - 10/22/87 (00E) FILE 5: 04/14/73 - 09/21/81 (00E)
D-77877		FILE 1: 04/21/73 - 05/08/86 (13H) FILE 2: 04/21/73 - 05/04/86 (13I) FILE 3: 04/21/73 - 04/17/86 (13J) FILE 4: 04/11/73 - 10/22/87 (00F) FILE 5: 04/14/73 - 09/21/81 (00F)

# Temporary Update to the Pioneer-10 and -11 Plasma Data Documentation

Susan Kayser

November 11, 1987

## 1 Introduction

The Pioneer-10 and -11 Plasma Analyzer Experiment data sets have been expanded by the inclusion of more recent data—all the data available as of 30 June, 1987. This note updates the previous document, *The Plasma Data from the Pioneer-10 and -11 Plasma Analyzer Experiment*, Document ID number SAR 20/84-058-0096. In case of any questions, contact:

Dr. Susan Kayser  
NASA/Ames Research Center  
Mail Stop 245-3  
Moffett Field, CA 94035  
(415) 694-6001

SPAN Address: NSSDCA::KAYSER or HAL::KAYSER

## 2 The Data

The Pioneer-10 data sets now cover the interval from spacecraft launch on 24 April, 1972 through 1986, or 72109–86265. The Pioneer-11 data are from launch on 6 April, 1973 until 28 August, 1982 (the instrument was non-operational between 13 April, 1975 and 30 November, 1977), and from 1 January, 1984 until 9 May, 1986, or 73111–75012, 77335–82240, and 84001–86129. The rest of the 1982, 1983, and 1986 data for Pioneer-11 will be available soon.

At the large heliocentric distances to which the spacecraft have attained, the solar wind densities are very low, and the least-squares fits for the parameters have a higher percentage of bad fits in the recent data. The most frequent problem due to the scarcity of particles is that the instrumental noise overwhelms the signal, leading to spurious velocities over 800 km/s, or flow angles of more than 45° from the radial direction. Usually, more than one parameter is bad when such a spurious fit occurs. As with the earlier data sets, bad fits are retained but flagged with a value of 100.

The accuracy of the velocities is still about  $\pm 20$  km/s. For Pioneer-10, the Sun has appeared too faint to trigger the Sun Sensors since 15 November, 1983, and the spacecraft attitude is now determined by alternative methods, leading to uncertainties of perhaps  $\pm 2^\circ$ . Temperatures are good to about 15%, but have uncertainties of  $\pm 4000$  K below 15,000 K. Densities are reliable to about 12%, with the uncertainty increasing to a factor of 2 below .005/cc (at which level, fits are often not possible).

### 3 The Tapes

The data tapes have the same format as described previously, except that they are now at a density of <sup>1400</sup>6250 bpi.

Copies of the tapes suitable for use on a VAX have been created with the VAX BACKUP command on 6250 bpi tapes named PION10 and PION11. To unload the files, use the command:

```
$ BACKUP MFA0:PION10 *
```

The five files are named P10DATA, P10HOUR, P10DAY, P10ORB, and P10CONE, all .DAT (and similarly for P-11), and occupy 33086 blocks for P-10 and 41188 blocks for P-11. To read the files, include in your program the following:

```
OPEN(UNIT=20,FILE='P10DATA.DAT',STATUS='OLD',READONLY,  
FORM='UNFORMATTED',RECORDTYPE='FIXED',RECL=35,END=300)
```

P10ORB has RECL=16 and P10CONE has RECL=5.

THE PLASMA DATA FROM THE PIONEER-10 AND -11  
PLASMA ANALYZER EXPERIMENT

Prepared By:

Dr. Susan Kayser  
Science Applications Research

Date:

April 25, 1984

## TABLE OF CONTENTS

SECTION 1	INTRODUCTION	1
SECTION 2	THE DATA	2
2.1	The Time Intervals Covered by the Data	2
2.1.1	Different Formats for the Date	2
2.1.2	Pioneer-10	2
2.1.3	Pioneer-11	2
2.2	The Least-Square Processing	4
2.3	Additional Processing	4
2.3.1	Coordinate Systems	4
2.3.2	Trajectory Data	5
2.3.3	Attitude Data	5
2.4	Uncertainty of the Measurements	5
2.4.1	Bulk Speed	7
2.4.2	Density	7
2.4.3	Temperature	7
2.4.4	Angle of Flow	7
2.4.5	Formal Uncertainties	8
2.4.6	Quality Flags	8
2.5	Averaged Data Sets	9
SECTION 3	THE TAPES	10
3.1	The Contents of Each Tape	10
3.2	Job Control Language (JCL)	10
3.3	Sample Program	11
SECTION 4	RECORD CONTENTS	12
4.1	The Full Summary Data Record (File 1)	12
4.2	The Hourly and Daily Averages Records (Files 2, 3)	13
4.3	The Trajectory Record (File 4)	14
4.4	The Attitude Record (File 5)	14
APPENDIX		15

## LIST OF FIGURES

FIGURE 2-1	Trajectories of Pioneer-10 and -11	3
FIGURE 2-2	The SES System	6

## SECTION 1. INTRODUCTION

All the Pioneer-10 and -11 Plasma Analyzer Experiment data that were processed as of 10 September, 1983, have been collected onto two tapes, one for each spacecraft. This document provides the information necessary to use these tapes.

Section 2 describes the data, the processing they have undergone, and the resulting expected accuracy. The coordinate systems used in these tapes are explained in Section 2.3.1.

Section 3 gives information about the tapes, such as record size or tape density. A sample program to list items from the data records is included.

These tapes are available from the NSSDC. Microfiche plots of all parameters versus time have also been deposited with the NSSDC.

In case of questions about the tapes or the data records, contact:

Dr. Susan Kayser  
NASA/Goddard Space Flight Center  
Code 690/SAR  
Greenbelt, Maryland 20771  
(301) 344-8385

or at

SAR  
6811 Kenilworth Avenue  
Riverdale, Maryland 20840

## SECTION 2. THE DATA

The NASA/Ames plasma analyzers on Pioneer-10 and -11 have been described by Wolfe, et al., J. G. R. 79, 3489, 1974 and McKibben et al., Space Sci. Inst, 3, 219, 1977. Only the proton component of the solar wind has been successfully measured beyond about 1.5 AU, so the electron or helium components will not be discussed further.

### 2.1 The Time Intervals Covered by the Data

Because of the very large computer time devoured by the least-squares processing program, for many years after launch, only one sample per hour was processed. Collection time of a sample in the most common data mode is about 5 minutes. After 1978, the data tracking rate for the spacecraft was fairly low, so all samples obtained from 1978 on have been processed. Some intervals of particular interest before 1978 have also been fully processed. All data processed by the least-squares program as of 10 September, 1983, are included in these data sets.

#### 2.1.1 Different Formats for the Date

For convenience all dates will be represented in one of two forms. The first is denoted by YYMMDD, a 6 digit integer of which the first two are the year - 1900, the next two are the month number, 1-12, and the last two are the day-of-month, 1-31. For example, 14 February, 1976 is 760214.

The second form is denoted by YYDDD and is sometimes called the "Julian Day." The first two digits are the year - 1900; the last three are the day-of-year, 1-365. Thus 14 February, 1976 is 76045.

#### 2.1.2 Pioneer-10

Pioneer-10 was launched on <sup>3 MARCH</sup>~~24 April~~, 1972, and encountered Jupiter in December, 1973. The trajectory is shown in Figure 2-1. The plasma data cover the interval from launch until 25 June, 1983 or 72109-83176. There are occasional data gaps of a month or less.

#### 2.1.3 Pioneer-11

Pioneer-11 was launched on 6 April, 1973, encountering Jupiter in December, 1974 and Saturn in September, 1979. The trajectory is shown in Figure 2-1. The instrument was non-operational between April 1975 and December, 1977. A change in the bit rate in December, 1981 has caused processing problems which were not resolved as of September, 1983. The plasma data are for 21 April, 1973 - 12 April, 1975 and for 1 December 1977 - 6 December 1981, or 73111-75012 and 77335-81340. There are occasional data gaps of a month or less.

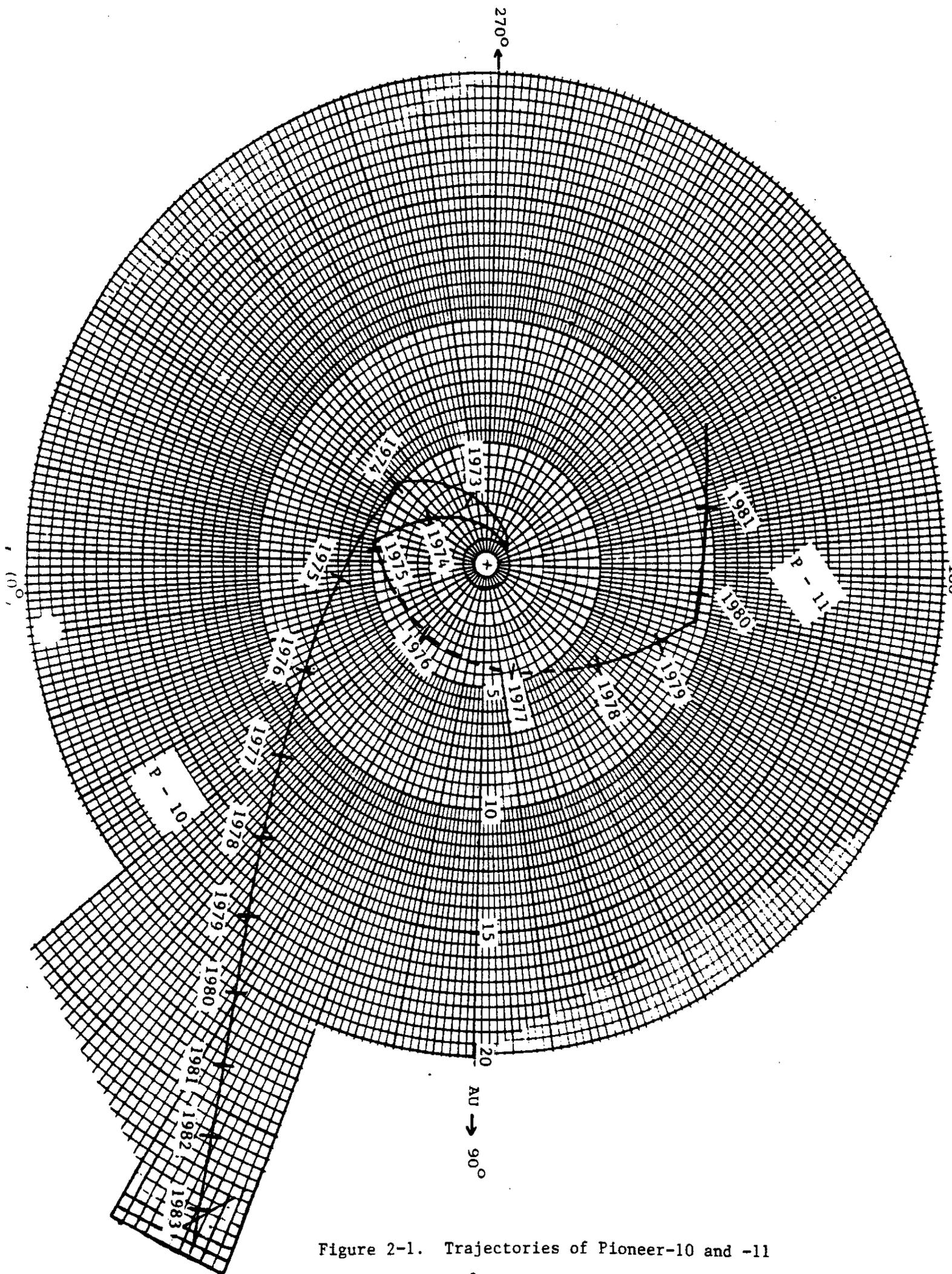


Figure 2-1. Trajectories of Pioneer-10 and -11

## 2.2 The Least-Square Processing

The raw data are fed into a computer program which fits them to a convecting isotropic Maxwellian distribution for protons. The output from this program are five parameters, the uncertainties associated with each parameter, and the "chi-square" of the fit. The five parameters are the proton bulk speed with respect to the spacecraft, temperature, density, and two angles oriented with respect to the spacecraft which give the direction of the bulk flow. The significance of the uncertainties is not entirely clear, since they are often negative. The "chi-square" ranges from 0. to over 1000., and very small values as well as very large values are obviously bad fits.

The algorithms in this program have been modified several times since inception of the program, especially to improve the ability to fit at low temperatures. No significant systematic differences were found in comparing parameters resulting from running identical input data with different versions of the program.

## 2.3 Additional Processing

The least-square parameters were collected into a single data set, sorted into chronological order, with duplicates removed. The bulk speed and instrument angles were corrected for the spacecraft velocity, and converted to the "inertial" coordinate system (SES) defined in Section 2.3.1.2, using the spacecraft attitude angles described in Section 2.3.3. Trajectory data were added from the trajectory tapes described in Section 2.3.2, linearly interpolated to the sample time. Solar equatorial coordinates were also computed, as defined in Section 2.3.1.3.

The resulting parameters were plotted against time, and obvious bad fits were flagged as described in Section 2.4. The final data set comprises File 1 of each data tape.

Two additional data sets for each spacecraft were generated from the full "summary" data set, one containing hourly averages and one containing daily averages. They are described in Section 2.5. These data sets are contained in Files 2 and 3 of each tape.

### 2.3.1 Coordinate Systems

Three coordinate systems are used on the data tape. They are defined below.

#### 2.3.1.1 The Heliocentric Ecliptic Coordinates (HEC)

The HEC have their origin at the Sun. The X-axis points to the Vernal Equinox, the Z-axis to the North Ecliptic Pole, and the Y-axis forms a right-handed system. The X-Y plane is the ecliptic. All of the trajectory parameters are in this system.

### 2.3.1.2 The Pioneer Ecliptic System (PES)

The PES is centered at the spacecraft with the Z-axis pointing to the North Ecliptic Pole, the X-axis away from the Sun, and the Y-axis completes a right-handed system. The X-Y plane is parallel to the ecliptic. The bulk velocity is given in this system, as shown in Figure 2-2. The PES involves both a translation from the HEC and a rotation about the Z-axis.

### 2.3.1.3 The Solar Equatorial System (SES)

The SES system is centered on the Sun and is based on a tilt of the solar equator from the ecliptic of  $7^{\circ}15'$ . The Z-axis is the solar rotation axis. The X-axis, from which longitude is measured, is the ascending node of the solar equator on the ecliptic, which is taken to be  $74^{\circ}22' + 84'T$  from the Vernal Equinox, where T is the epoch in centuries from 1900.

## 2.3.2 Trajectory Data

The trajectory data on these tapes were obtained from Trajectory Tapes containing smoothed, predicted orbit data. These data are therefore not identical to those obtained every 10 days or so in the process of determining spacecraft attitude, and a systematic variation in the bulk flow azimuth, described below, is probably due to this discrepancy. The Trajectory Tapes usually contain one record per day, with more frequent records during encounters. 16 items were selected from each record to create a trajectory data file for each spacecraft. Interpolation in this file provided the trajectory elements in each plasma data record. The trajectory file is supplied on each tape as File 4.

## 2.3.3 Attitude Data

The spacecraft attitude, necessary to correct the instrumental bulk velocity to an inertial system, was obtained from printouts of cone and clock angles supplied every 10 days or so, whenever commands to the spacecraft resulted in a determination of position and attitude. The cone and clock angles and the clock angle correction term relate the spacecraft-fixed rotating coordinate system to the PES system, and are described briefly in Section 4.4.

The table of cone and clock angles is supplied in File 5 on each tape. Linear interpolation in this table to the sample times provided the attitudes for correcting the instrumental velocities.

## 2.4 Uncertainty of the Measurements

The expected accuracy of the measurements is derived mostly from the internal consistency of the measurements, and partly from the formal uncertainties produced by the least-squares program. Comparison of

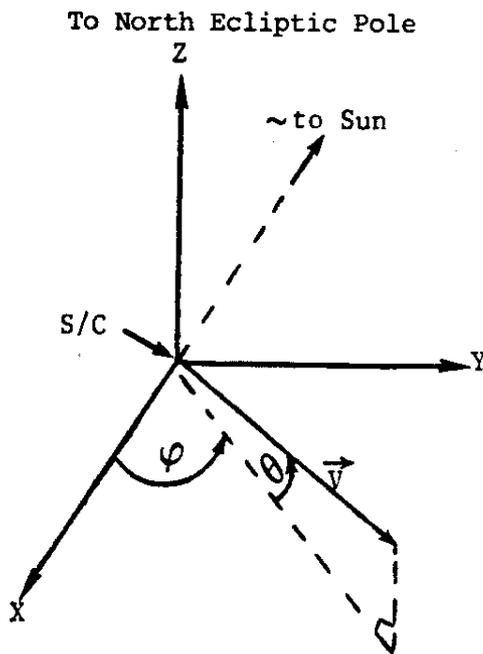


Figure 2-2. The SES System

parameters derived from different versions of the least-squares program operating on the same input data shows agreement to better than 0.5% in the speed, 12% in density, and 20% in temperature. Comparison of the flight data to the fitted Maxwellian distribution shows that about 10% of the data base contains forced fits for distributions that are substantially non-Maxwellian, anisotropic, or contain a strong He<sup>++</sup> component. Extremely large formal errors usually correspond to questionable fits.

The absolute accuracy of the fitted parameters is difficult to obtain, but comparisons of Pioneer plasma data with data from IMP 6, 7, and 8 have not found significant systematic differences.

#### 2.4.1 Bulk Speed

The bulk flow speed is the most accurately determined of the parameters, with respect to the spacecraft. Uncertainty in the attitude, however, leads to additional uncertainty in the bulk speed after subtraction of the spacecraft velocity. The final uncertainty is about  $\pm 20$  km/sec.

For some samples of low density, the least-squares program gets trapped in a set of parameters with velocities above 930 km/s. These are very easy to recognize in the plots, and are flagged with a value of 100 (see Section 2.4.6).

#### 2.4.2 Density

The density is estimated to be relatively accurate to 12%, from internal consistency. For extremely low densities, such as have been encountered since 1982, the number of particles collected in a sample may be so low that no fit is possible. This lower cutoff is about 0.005/cc.

#### 2.4.3 Temperature

This parameter is the one most sensitive to the fitting algorithms. The internal consistency is about  $\pm 4000^\circ\text{K}$  for temperatures below 15,000 K, about 15% for temperatures between 25,000 K and 100,000 K, and increases to an uncertainty of 50% or more for values over  $10^6$  K.

#### 2.4.4 Angle of Flow

The angles of flow depend critically on the spacecraft attitude. Most of the time, this is quite well determined, to  $0.3^\circ$  or so. About 10% of the time, however, especially when the spacecraft is being precessed, the attitude may be uncertain by  $30^\circ$  or more. On the average, angles should be good to  $\pm 0.7^\circ$ , after the correction noted below.

A systematic error in the azimuthal angle has been found, with a period of one year and an amplitude very approximately equal to 1 AU subtended at the spacecraft. This may be due to inconsistencies between the actual spacecraft positions used in attitude determination, and the smoothed trajectories used to subtract the spacecraft velocity. A rough correction is to subtract

$$0^{\circ}.3 + [2^{\circ}.537 - 0^{\circ}.129 (y - 1972.0)] * \cos (2 \pi * \frac{d}{365}) \quad (\text{Pioneer-10})$$

from the azimuthal angle in the data record. Here y is the date, as year plus decimal fraction of a year, and d is the day of year.

#### 2.4.5 Formal Uncertainties

The formal uncertainties of the least-squares program do not correspond very well to the true goodness of fit, as judged by a visual comparison of the flight data with the derived Maxwellian. Occasionally, the uncertainties are even negative. Consequently, only fits with extremely large (or negative) uncertainties are flagged as questionable.

The same is true of the "chi-square" of the fit. Fits with values over 1000 are flagged as bad, and flagged as questionable for chi-square between 200-1000.

#### 2.4.6 Quality Flags

Each fit has been assigned a quality. A quality of 0 is a good fit, a quality of 10 or 20 is a questionable fit, and a quality of 100 is a bad fit.

A value of 100 is assigned if the velocity is greater than 1000 km/s, if the temperature is greater than  $2 \times 10^6$  K, or if the density is greater than 100/cc at 1 AU (decreasing to 5/cc at 10 AU, etc.). A chi-square value over 1000. is considered a bad fit. Finally, on visually scanning the data plotted against time, individual fits may be considered spurious and assigned a quality of 100 by hand-editing.

From the visual scans, individual fits are also marked as of questionable quality and assigned a value of 10 or 20 (worse) by hand editing.

This quality value is stored in the data record and can be used as a flag to omit records when using the data set.

## 2.5 Averaged Data Sets

Two data sets have been generated from the full "summary" data set for each spacecraft, with bad records omitted, and questionable records given half weight. The first of these contains hourly averages, and the second contains daily averages. These averaged data sets have a format similar to that of the full set. The differences are described below.

- The time of each record in seconds-of-day is replaced by hour (0 to 23) for the hourly averages, and by 0 for the daily averages.
- The five formal parameter uncertainties are replaced by the root-mean-square dispersion of the parameter values. Chi-square is replaced by the number of records in the average.
- Four quantities are calculated and averaged: the proton flux  $NV$ , thermal pressure  $NkT$ , convective pressure  $Nm_p V^2$  and kinetic energy flux,  $1/2 Nm_p V^3$ . They fill the three blank items and the quality value in the full set.
- The processing date in the averages is that when the average was generated, compared to the least-squares processing date in the full set.

## SECTION 3. THE TAPES

The following section describes the tapes and the Job Control Language necessary to read them.

### 3.1 The Contents of Each Tape

There is one tape for Pioneer-10 and one for Pioneer-11 . Each tape contains 5 files and was written in binary on an IBM 360 in 32-bit words. The files contain

- 1) the full summary "data set",
- 2) the hourly averages,
- 3) the daily averages,
- 4) the trajectory data, and
- 5) the attitude data.

### 3.2 Job Control Language (JCL)

The actual JCL used will depend on the particular installation conventions, but the following parameters will probably appear.

- The tapes are no-label: LABEL=(,NL)
- The tape density is 1600 bpi: DEN=3
- The record format is variable block, spanned; this is the preferred format for a unformatted FORTRAN READ: RECFM=~~VSB~~  
VBS
- The logical record size and block size depend on the type of data, and are given below as LRECL and BLKSIZE:

For files 1-3, LRECL=144,BLKSIZE=14404  
For file 4, LRECL=68,BLKSIZE=13604  
For file 5, LRECL=24,BLKSIZE=12004

As an example, the data definition statement suitable for reading the full data set on an IBM 360 might be;

```
//FT10F001 DD UNIT=1600,DISP=SHR,LABEL=(1,NL),VOL=SER=123456,  
// DCB=(DEN=3,RECFM=VSB,LRECL=144,BLKSIZE=14404)  
VBS
```

### 3.3 Sample Program

A FORTRAN program follows that will read the hourly averages data set and write out some parameters within a desired time interval.

```

    DIMENSION REC(35)
    COMMON /CREC/ JYDD, JYMD, JHR, TEMP, VEL, AZ, EL, DEN, RMS(6), ORBIT(16),
+   FLUX, PRES, PCONV, ENERGY, KPROC
    EQUIVALENCE (REC(1), JYDD)
    DATA IU/6/, AU/1.497E8/
C
C..READ IN DESIRED START, STOP DATES AS YMMDD.
    READ (5,1001) ISTART, ISTOP
    1001 FORMAT (I6, I7)
    WRITE (IU, 1003)
C
C..READ DATA RECORDS FROM FT10F001. TEST FOR DESIRED INTERVAL
    20 READ (10, END=100) REC
    IF (JYMD. LT. ISTART) GO TO 20
    IF (JYMD. GT. ISTOP) GO TO 100
C..RECORD IS IN DESIRED INTERVAL
    R = ORBIT(1) / AU
    WRITE (IU, 1004) JYMD, JHR, VEL, DEN, TEMP, R
    1003 FORMAT ('1 YMMDD HR VEL DEN TEMP R(AU)')
    1004 FORMAT (I8, I4, F8.1, F8.3, F9.0, F7.2)
    GO TO 20
C
C..END OF LISTING
    100 STOP
    END
```

## SECTION 4. RECORD CONTENTS

The contents of each of the five files is described below. Each item is a 32-bit word, with standard nomenclature to indicate fixed or floating point. Coordinate systems are described in Section 2.3.1.

### 4.1 The Full "Summary" Data Record (File 1)

<u>WORD</u>	<u>VARIABLE</u>	<u>DESCRIPTION</u>
1	JYDD	Julian date of record, YYDDD
2	JYMD	Date of record in form YYMMDD
3	NSEC	Time of record in seconds of day, at spacecraft at start of data
4	TEMP	Proton bulk temperature (K)
5	VEL	Average bulk flow speed (km/s)
6	AZIM	Azimuthal angle of flow, $\psi$ , in PES system (degrees)
7	ELEV	Elevation angle of flow, $\theta$ , in PES system (degrees)
8	DEN	Proton density (#/cc)
9	DT	Uncertainty in temperature
10	DV	Uncertainty in velocity
11	DANG1	Uncertainty in azimuth, in rotating instrument coordinates
12	DANG2	Undertainty in elevation, in rotating instrument coordinates
13	DN	Uncertainty in density
14	CHISQ	Chi-square of fit
15-30	ORBIT(16)	14 trajectory parameters and 2 SES coords. All angles are in degrees, distances are in km, and velocities are km/s. Coordinate system is HEC except as indicated.
15	(1)	Distance of spacecraft from Sun
16	(2)	Longitude of spacecraft
17	(3)	Latitude of spacecraft
18-20	(4-6)	X,Y,Z coordinates of spacecraft
21-23	(7-9)	X,Y,Z components of spacecraft velocity
24	(10)	Speed of spacecraft
25	(11)	Distance of Earth from Sun
26	(12)	Latitude of Earth
27	(13)	Longitude of Earth
28	(14)	Distance between spacecraft and Earth
29	(15)	Solar equatorial latitude of spacecraft in SES system

30	(16)	Solar equatorial longitude of spacecraft in SES system
31-33	SPARE(3)	Three blank words
34	BADREC	Record quality. 0. is good, 10.-20. is doubtful, 100. is bad fit
35	JPROC	Julian date of the least-square processing

#### 4.2 The Hourly and Daily Averages Records (Files 2, 3)

<u>WORD</u>	<u>VARIABLE</u>	<u>DESCRIPTION</u>
1	JYDD	Julian date of record, YYYYY
2	JYMD	Date of record in form YMMDD
3	NHR	Hour of record, 0-23. (0 for daily averages)
4	TEMP	Average proton temperature (K)
5	VEL	Average bulk flow speed (km/s)
6	AZIM	Average azimuthal angle of flow (degrees, PES system)
7	ELEV	Average elevation angle of flow (degrees, PES system)
8	DEN	Average density (#/cc)
9-13	RMS(5)	Root-mean-square dispersion of preceding 5 parameters
14	AREC	Number of records in average (questionable records counted as 1/2)
15-30	ORBIT(16)	Average trajectory parameters
15	(1)	Distance of spacecraft from Sun (km)
16-17	(2-3)	Longitude and latitude of spacecraft in HEC system (degrees)
18-20	(4-6)	X, Y, Z coordinates of spacecraft in HEC system (km)
21-23	(7-9)	X, Y, Z components of spacecraft velocity (km/s)
24	(10)	Speed of spacecraft (km/s)
25-27	(11-13)	Distance, latitude, longitude of Earth
28	(14)	Distance of spacecraft from Earth (km)
29-30	(15-16)	Solar equatorial latitude and longitude of spacecraft in SES (degrees)
31	FLUX	Average proton flux, $\langle NV \rangle$ , ( $\#/cm^2-s$ )
32	PRES	Average thermal pressure, $\langle NkT \rangle$ , ( $dynes/cm^2$ )
33	PCONV	Average convective pressure, $\langle Nm_p v^2 \rangle$ , ( $dynes/cm^2$ )
34	ERG	Average kinetic energy flux, $\langle 1/2 Nm_p v^3 \rangle$ , ( $ergs/cm^2-s$ )
35	KPROC	Julian date on which data set was produced.

#### 4.3 The Trajectory Record (File 4)

All coordinates are in the HEC system, expressed in km, or degrees

<u>WORD</u>	<u>VARIABLE</u>	<u>DESCRIPTION</u>
1	JYMD	Date of record as YYMMDD.
2	MSEC	Time of record in msec at spacecraft
3-5	XYZ(3)	X, Y, Z coordinates of spacecraft
6-8	XYZDOT(3)	X, Y, Z components of spacecraft velocity (km/s)
9	R	Distance of spacecraft from Sun
10	V	Speed of spacecraft (km/s)
11	RE	Distance of Earth from Sun
12-13	ANGL(2)	Latitude and longitude of spacecraft
14-15	EANGL(2)	Latitude and longitude of Earth
16	REP	Distance of spacecraft from Earth

#### 4.4 The Attitude Record (File 5)

The cone and clock angle coordinate system has its Z-axis along the spacecraft spin axis, which points roughly toward Earth, the X-axis is the projection in the spin plane of the South Ecliptic pole and Y forms a right-handed system. The cone angle is the polar angle of the Sun measured from the Z-axis. The clock angle is the meridian roll angle of the Sun, measured counterclockwise from the Y-axis.

<u>WORD</u>	<u>VARIABLE</u>	<u>DESCRIPTION</u>
1	JYDD	Julian date of record, YYDDD
2	NSEC	The GMT time of record, in seconds of day
3	CONE	Cone angle of Sun
4	CLOCK	Clock angle of Sun
5	CLOCKC	Roll angle at Sun pulse

## APPENDIX

A set of five tapes containing these data sets is available at NASA/Ames, through the Plasma Experiment personnel. These tapes differ from the NSSDC format. Each Ames tape contains one of the five data sets, with Pioneer-11 data stacked after Pioneer-10 data, in the same file. Furthermore, all variables in all data sets are expressed in floating point (REAL\*4).

The data is blocked on these tapes, with block sizes as given below. All the Pioneer-10 data is written first, with the last Pioneer-10 block zero-filled. The Pioneer-11 data begins in the next block, and again the last block is zero-filled. (The choice of block size for the orbit and attitude tapes was 8 bytes too small, so that on these tapes each full block is followed by a block containing the last two data words). A FORTRAN 77 program is attached which reads these tapes and rewrites them in the NSSDC format.

All the tapes are no-label with 32-bit words. The density is 1600 bpi, and the record format is VBS. There is one file on a tape. Logical record length = blocksize - 4.

Tape 90645D contains the attitude data. Blocksize = 9000 bytes.  
Tape 90646B contains the trajectory data. Blocksize = 9600 bytes.  
Tape 90647D contains the full data set. Blocksize = 14010 bytes.  
Tape 90648D contains hourly averages. Blocksize = 14010 bytes.  
Tape 90649D contains daily averages. Blocksize = 14010 bytes.

\*\*\* TSO FOREGROUND HARDCOPY \*\*\*  
DSNAME=XRSEK.PIONEER.CNTL

(DAYJCL )

```
XRSEKPRD JOB (SB001,8F2,05),PIONEER.TAPE.READ.TIME=(01.00),CLASS=A 00000010
//COPY AMES PIONEER DATA TAPE TO LOCAL TAPES 00000020
//PROGRAM IS WRITTEN IN IBM VSFORTRAN (FGTRAN 77) 00000030
EXEC FORTRANV 00000040
//FORT.SYSIN DD * 00000050
PROGRAM PIONRD 00000060
C..READS AMES CDC-IBM PIONEER DATA TAPE AND REWRITES IT FOR GSFC. 00000070
C..PIONEER-10 DATA IS OUTPUT ON UNIT 10, PIONEER-11 DATA ON UNIT 11. 00000080
C..NR IS # WORDS PER RECORD; NB IS BLOCKING FACTOR. 00000090
C..FOR NR = 35,16,5, USE NB = 100,150,450 (DATA,ORBIT,ATTITUDE). 00000100
PARAMETER (NR=35, NB=100) 00000110
DIMENSION REC(35),NREC(10:11),BLOCK(NR,NB) 00000120
EQUIVALENCE (REC(1),IYDD),(REC(2),IYMD),(REC(3),NSEC), 00000130
 (REC(35),KPROC) 00000140
DATA NREC,NERR/3*0/, IU/10/ 00000150
C 00000160
20 READ(15,END=100,ERR=90) BLOCK 00000170
DO 50 I = 1,NB 00000180
IF(BLOCK(I,I) .NE. 0.) THEN 00000190
DO 40 J = 1,NR 00000200
40 REC(J) = BLOCK(J,I) 00000210
NREC(IU) = NREC(IU) + 1 00000220
IYDD = REC(1) 00000230
IYMD = REC(2) 00000240
C..OMIT NEXT TWO LINES FOR ORBIT OR ATTITUDE DATA FILES. 00000250
NSEC = REC(3) 00000260
KPROC = REC(35) 00000270
WRITE(IU) (REC(M),M=1,NR) 00000280
ELSE 00000290
IU = 11 00000300
GO TO 20 00000310
END IF 00000320
50 CONTINUE 00000330
GO TO 20 00000340
C 00000350
90 NERR = NERR + 1 00000360
GO TO 20 00000370
00000380
100 WRITE(6,1002) NREC,NERR 00000390
1002 FORMAT(///115,' RECORDS OF PIONEER-10 DATA'/ 00000400
1 115,' RECORDS OF PIONEER-11 DATA'/ 00000410
2 115,' TAPE-READ ERRORS'//) 00000420
STOP 00000430
END 00000440
/* 00000450
// EXEC LOADER,REGION=600K,PARM='SIZE=600K' 00000460
//SYSLIB DD DSN=SYS1.VFOTRLIB,DISP=SHR 00000470
//SYSLIN DD DSN=&LOADSET 00000480
//*FT10 AND FT11 ARE OUTPUT TAPES; FT15 IS THE AMES INPUT TAPE 00000490
//FT10F001 DD UNIT=6250,DSN=PIONER10,LABEL=(1,NL),VOL=SER=SEK001, 00000500
// DCB=(DEN=1,RECFM=VSB,LRECL=144,BLKSIZE=14404),DISP=NEW 00000510
//FT11F001 DD UNIT=6250,DSN=PIONER11,LABEL=(1,NL),VOL=SER=SEK002, 00000520
// DCB=(DEN=3,RECFM=VSB,LRECL=144,BLKSIZE=14404),DISP=NEW 00000530
//FT15F001 DD UNIT=6250,DSN=P10DATA,LABEL=(1,NL),VOL=SER=SEK003, 00000540
// DCB=(DEN=3,RECFM=VSB,LRECL=14006,BLKSIZE=14010),DISP=OLD 00000550
//*FOR ORBIT(OR ATTITUDE) TAPE, LRECL=9596(8996),BLKSIZE=9600(9000) 00000560
```



( 12880)	47AC5521	4207E2E8	C11AAACC	C78CD2F5	C764B703	C6508327	4179F809	C221CF06	C1115617	4222AD3E
( 12920)	478F5479	8D753906	42016FFC	47230A15	C164A7EB	428C94EB	00000000	00000000	00000000	00000000
( 12960)	00012530	00900000	00119AE	000AF223	000934F1	4432CDF2	43159FC4	401A0B89	C18A772F	418C545D
( 13000)	43164907	408DA6F6	42C82F5C	40710AF8	407114AF	41D0ACB5	4740F5E7	C27FEA56	C11AAD66	C78CCDB4
( 13040)	C764CEB7	C65C8F53	417A2295	C221CD50	C11154B8	4222ACC17	478F5ACC	8D73FC48	42D17848	472310E6
( 13080)	C1649F04	428C9C55	00000000	00000000	00000000	00000000	00012530	00900000	000115AE	00DAFF23
( 13120)	0000A2B8	4458F099	4315C2A9	40F43159	C110AD50	4161F566	43266381	40F18A3A	42C8813E	40E1DA64
( 13160)	4145F474	415D9798	47AD4883	42D7F49A	C11AB0FE	C78CC672	C765AEF78	C650A024	417A5826	C221CAE3
( 13200)	C1115202	4222AA81	478F554C	8D724696	42D1838D	47231A52	C164528A	428CA651	00000000	00000000
( 13240)	00000000	00000000	0012530	00900000	00119AE	000AF223	0000AE52	446F57C6	43157621	40E8CB1D
( 13280)	C1EB4707	416723F3	43399D2D	40921174	42C84E03	408C88F	40403F61	413F2F23	47AD555A	42D7FD16
( 13320)	C11AB3EF	C78CC04F	C765CA9E	C650AE0F	417A842D	C221C8FB	C111513F	4222A52F	478F555A	8D7DD122
( 13360)	42D18D42	47232232	C164886A	428CAF12	00000000	00000000	00000000	00000000	00012530	00900000
( 13400)	000119AE	000AF223	0090B22F	448D52C4	4313AED7	C11140AE	C1E37395	414EFC78	43989F3E	4118C949
( 13440)	42C90034	40D2EB43	406A861F	442D7604	47AD6285	42D806A2	C11AB734	C78CB938	C7652946	C650BDDC
( 13480)	417AB5EB	C221C6BC	C1114F76	4222A7AE	478F560C	8D6F1CEA	42D1580A	4723282E	C1647C98	428CB883
( 13520)	00000000	00000000	00000000	00000000	00012530	00000000	000115AE	000AFE23	0000CD35	44A73E4D
( 13560)	4314F049	4074E34A	C1CDE4A5	41793270	4359213B	408F6859	42C8594E	40D80B61	404413D4	416409FB
( 13600)	474DC6F7	42D81083	C11ABA98	C78CB1E0	C7654903	C65CDFD	417AE864	C221C46A	C1114D9E	4222A621
( 13640)	478F567C	8D6D595E	42D1A334	47233A78	C1647C5E	428CC2A9	00000000	00000000	00000000	00000000
( 13680)	00012530	00900000	00119AE	000AF223	0000DA0F	4488DFB3	43153EE9	40E8899E	C1C55F89	415AA973
( 13720)	4337D808	407B770F	42C84839	4088D535	402C91C5	4139ECC7	47AD7A66	42D818F0	C11ABD7B	C78CB89E
( 13760)	C7656412	C65C0B06	417B13D9	C221C26F	C1114C0B	4222A4CE	478F56DB	8D68D867	42D1ACB8	47233C68
( 13800)	C16465F3	442CC8B7	00000000	00000000	00000000	00000000	00012530	00900000	000115AE	00DAFF23
( 13840)	0000E7C4	446D0594	4314CA6B	4128DEF1	C2140926	415A9605	4349C961	C6511804	42C858FE	408A5FA5
( 13880)	41484FEB	4194EF1C	47AD86C6	C11AC090	C78CA4F1	C0810A9B	417B4233	C221C052	C221C052	C221C052
( 13920)	C1114A5D	4222A365	478F5741	8D6A30CF	42D186DE	472344DC	C1645AD7	428CD433	00000000	00000000
( 13960)	00000000	00000000	0012530	00900000	000119AE	000AF223	0000F654	4485308F	4314753C	411F1112
( 14000)	411E1E37	415F56D0	433A51BF	40CBE104	42C83A8F	409D5E38	403989D8	412F7A31	47AD9261	42D82877
( 14040)	C11AC3D5	C78C9DDA	C7659F56	C650FA4C	417B7371	C221BE14	C1114294	4222A1E5	478F57AD	8D688997
( 14080)	42D1C1A6	47234DD9	C1644F0C	428CDDCF	00000000	00000000	00000000	00000000	00012530	00900000
( 14120)	000119AE	000AF223	001041A	44637F09	43140CD9	4123D577	4125568D	4157C8EF	C32C8A79	40542C25
( 14160)	42C82715	40621F38	40325E99	40A657A8	47AD9E11	42D8347F	C11AC6EE	C78C9724	C7658C98	C6510924
( 14200)	417BA2E8	C221BBF5	C11146E4	4222A079	478F5814	8D66ECC4	42D1AEBD	47235E59	C16443EE	428CF6E5
( 14240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00011321	447CAA0A
( 14280)	43148E4F	41133993	4115C2D2	41661C66	435793BC	4078B622	42C83924	4052A31E	4045C33C	4182CF1E
( 14320)	47ACAAC0	42D83E59	C11ACA4F	C78C8FD3	C765DC3C	C651195E	4178D409	C221B9A4	C1114500	42229EED
( 14360)	478F5883	8D6E2ABF	42D1D6FB	47235F9E	C16437BE	428CF0CC	00000000	00000000	00000000	00000000
( 14400)	00012536									

862349 96528BYTES

FILE	1	RECORD	740	LENGTH	96528BYTES					
( 0)	25B4000	00900000	0001514E	000D241F	00014C91	43641FC7	431E4AC7	42926227	4136A63E	3E4EC977
( 40)	43194749	408AC32C	4018D01F	4021283F	3F1847C0	4236A1CF	49163AE4	4246C457	4131A7C5	48780017
( 80)	4914E461	48133A2A	41188A85	41D04DB7	40A88187	41D2B5A8	478C67EB	8D7558E7	4253BA3E	49158258
( 120)	41397C57	431644F2	00000000	00000000	00000000	00000000	0001544A	00900000	0001514E	000D2420
( 160)	C0000551	4411D40C	4319E8B0	403C0323	412E3C27	3F558598	435E5E53	411A2CC3	4068F27C	48E15A18
( 200)	3E80F76E	401860A6	49163AE4	4246C457	4131A7C9	487E0017	4914E461	48133A2A	41188A85	41004DB7
( 240)	40A88187	41D2B5A8	478C67EB	8D7558D5	4253BA3E	49158258	41397C57	431644F2	00000000	00000000
( 280)	00000000	00000000	0001544A	00900000	0001514E	000D2420	00003372	4429E297	43198048	408DF823
( 320)	41215B75	3F116EAB	441154C5	41430D0F	40B2A7B2	4CAF2155	3E8E595C	4211B2C7	49163AE4	4246C457
( 360)	4131A7C9	48780017	4914E461	48133A2A	41188A85	41D04DB7	40A88187	41D2B5A8	478C67EB	8D7558C9
( 400)	4253BA3D	49158258	41397C57	431644F2	00000000	00000000	00000000	00000000	0001544A	00900000
( 440)	C001514E	000D2420	000041F3	442D01FD	4318CF7E	4C27A250	4121321F	3F75C2C7	43C0464A	C08353F1
( 480)	C11800CC	408D23A2	3F12924F	3F180FBF	49163AE4	4246C457	4131A7C9	48780017	4914E461	48133A2A
( 520)	41188A85	41D04DB7	40A88187	41D2B5A8	478C67EB	8D7558C9	4253BA3D	49158258	41397C57	431644F2
( 560)	00000000	00000000	00000000	00000000	0001544A	00900000	0001514E	000D2420	00004613	442D0888
( 600)	4318EF61	00015D75C	411E63D1	3E478814	443EA69A	42124637	412E4145	4120CAB5	3E8624DD	42142660
( 640)	49163AE4	4246C457	4131A7C9	48780017	4914E461	48133A2A	41188A85	41D04DB7	40A88187	41D2B5A8
( 680)	478C67EB	8D7558B9	4253BA3D	49158258	400D2420	00003372	4429E297	43198048	408DF823	4246C457
( 720)	0001544A	00900000	0001514E	000D2420	00004613	442D0888	00000000	00000000	00000000	00000000
( 760)	4418F596	418381B5	411978BC	41118B35	3F4F0785	42110DE9	43195AFC	C0976C8E	411A8923	3E4E8262
( 800)	4914E461	48133A2A	41188A85	41D04DB7	40A88187	41D2B5A8	478C67EB	8D7558B3	4253BA3C	49158258
( 840)	41397C57	431644F2	00000000	00000000	00000000	00000000	0001544A	00900000	0001514E	000D2420
( 880)	C0007ECC	44144527	43156D53	C1148CD1	41137D64	3F2896E1	4379587D	41235E1A	4057EC8E	404566C0
( 920)	3E8A888	4218F249	49163AE4	4246C457	4131A7C9	48780017	4914E461	48133A2A	41188A85	41004DB7
( 960)	40A88187	41D2B5A8	478C67EB	8D7558AE	4253BA3C	49158258	41397C57	431644F2	00000000	00000000

820	0000000	001544A	00500000	0001515A	000242C	000123C2	44117041	4317662A	403FBF12
8960	413CB43C	3F1CE745	4116D67A	3EC172C0	3E41D943	3E2D889D	3D131374	3F2674E7	491648A8
9000	4131A6B6	48134D94	4914F253	481345A5	41003D93	40AB79FA	41D2B1F6	478C4C80	3CE45B27
9540	426 F77C	4915C845	413568CE	4316456C	00000000	00000000	00000000	0001544A	00500000
9080	0001515A	0000242C	00133E2	443520C5	4210E6C8	C212BF43	401F92E6	438A6C33	41168C2A
9120	402E7E9F	4026A6B3	3F3F58F9	421583B3	491648A8	4246CC2E	4131A686	48781D94	4914F252
9160	411B83C9	41003D93	40AB72FB	41D2B1F6	478C4C80	3CE4468F	4260F764	4515C845	413968D2
9200	00000000	00000000	00000000	42640000	0001515A	00000000	00000000	00004C25	442BR8CD
9240	4324E145	4159039E	C11D92DB	3F8A30A3	442F7738	41754838	41199524	40E3EB25	3F1DC899
9280	491648A8	4246CC2E	4131A686	48781D94	4914F252	481345A5	411B83C9	41D03D93	40AB72FB
9320	478C4C80	3CE43FB4	4260F76C	4915C845	413568CE	4316456C	00000000	00000000	41D2B1F5
9360	0001544A	00900000	0091515B	0000242D	000074A5	442715E0	4347C8E5	41844E24	3D1098F3
9400	44163AAB	414E43FA	40410D2A	40456AA1	3D11728E	43648EC5	491648A8	4246CC2E	4131A686
9440	4914F252	481345A5	411B83C9	41D03D93	40AB72FB	478C4C80	3CE43C46	4260F75E	4915C845
9480	413568CE	4316456C	00000000	00000000	00000000	42640000	0001544A	00000000	000242E
9520	000150A5	442427A2	431EAD6B	C1D54360	4218AD40	3F227AC4	414AEF55	40000000	409E5AAB
9560	3F113144	426C228F	491649B7	4246CCCB	4131A6A1	48781FD8	4914F365	48134687	41D03C56
9600	4CAB71CD	41D2B1F8	478C4B9E	3D22D6E1	4261FC74	4515CD75	413968D2	00000000	00000000
9640	00000000	42640000	0001544A						

FILE	INPUT RECS.	DATA RECORDS	MAX. SIZE	PERM	READ ERROR	SUMMARY	UNDEF.	INPUT RETRIES
				ZERO	B	SHORT	#RECS.	TOTAL#
1	74C	741	14404	0	0	0	0	0
2	RECORD	1	LENGTH	14404BYTES	0	0	0	0
0	38440000	00900000	009119AD	000AFE22	00000000	449BAFA3	43142996	C11B3A09
40	00000000	00000000	00000000	00000000	00000000	411C0000	47ABAF66	42D6ACA2
80	C76 DB9A	C64E878F	4173A391	C22215E1	C118F2E	4252DCE7	478F4605	8CA69675
120	C1661A4E	428B5D70	479F2261	381F4891	3A26A8E6	40015406	00900000	000119AD
160	00000001	4A47FF0C	4313B3A7	C14C380B	4139FB0D	415CABDC	00000000	00000000
200	00000000	41100000	47ABAB5E	42D68550	C114408F	C78DA459	C7609F718	C64E9589
240	C1118D98	4222D8AC	478F473A	8DA553AA	42D020C6	4721F746	C1661015	428B66A3
280	3A295888	4026D7DB	00015406	00000000	000119AD	000AFE22	00000002	47C5E54F
320	C65BA049	41510E1E	00000000	00000000	00000000	00000000	00000000	41315ABD
360	C11A430C	C78D9E63	C76114E7	C64E44D3	41740214	C22211D8	C1118BE8	4222DA43
400	000119AD	000AFE22	00000003	4497C17A	431447FB	411EB73C	C113A7CF	41547706
440	00000000	00000000	00000000	00000000	00000000	478D6C81C	C11A4745	C78D97EB
480	47435E74	381F2230	3A27EF33	40269EAA	00015406	00900000	000AFE22	00000004
520	43146618	411FB487	C1411885	41747AC6	00000000	00000000	00000000	41100000
560	478BD05C	42D6D165	C11A4A9E	C78D91BF	C7615011	C64EC350	4174655A	4222D05A
600	478F4875	BDA13EDE	42D03FBC	472210C7	C165FF18	428882C5	479A9E3A	381AF0A8
640	00015406	00900000	000119AD	000AFE22	00000005	44CAF414	4313D1FF	405CA3CC
680	00000000	00000000	00000000	00000000	00000000	411C0000	47ABE569	42D6D830
720	C7616F18	C64E038C	417458FA	C2220866	C11186AE	4222D5E8	478F48E3	8D9FD2EB
760	C165E399	428B8091	47821EE2	382E73CC	3A28A006	40228370D	000154D6	00900000
800	00000000	411C0000	478BF4CC	43134658	40811BE2	C0DD1783	41601814	00000000
840	C11184FF	4222D480	478F494A	8D9E78B7	42D05481	C78D84FE	C7618C4A	C64EE296
880	3A290B60	4025B9CA	00015406	00900000	000119AD	000AFE22	00000008	44CE1E0C
920	C14D59FC6	41687A56	44566EAB	4112548E	41167CF8	44FC4038	41183363	41200000
960	C11A57EC	C78D78A8	C7616C7E	C64F0092	41752A66	C2220530	C111E1A4	4222D184
1000	42D 68F0	47223239	C165C340	428BA820	47C135C8	3836D8B1	3A2D2818	4029C122
1040	000119AD	000AFE22	00000009	4475AC0C	43136512	41170C42	C1509475	4150CEFA
1080	00000000	00000000	00000000	411C0000	47AC10CA	42D704C6	C78D6E44	00000000
1120	4175433	C222020A	C1117F16	4222CF92	478FA4B4	8D9C976D	42D07861	47223E61
1160	47958CAA	38171896	3A2310DF	40207D02	00015406	00900000	000119AD	000AFE22
1200	43130388	4111CEB1	C142C1C0	415058B9	C0000000	00000000	00000000	00000000
1240	474C238C	42D70A3E	C11A5EE1	C78D6898	C762042D	C64F205A	41755108	C222D06F
1280	478F4AF2	8D98FBF6	42D7E69	472243A6	C165AC73	42888B93	4791829E	381994D9
1320	00015406	00900000	000119AD	000AFE22	00000008	446E597E	431364D7	4112852A
1360	00000000	00000000	00000000	00000000	00000000	41100000	47AC2F4D	8D9795FE
1400	C762252E	C64F2F2E	4175C330	C221FEAA	C1117C5A	4222CD4A	478F485C	42D08EE4
1440	C165A151	428B8510	47930DB2	38154F6A	3A225FA3	401FC9AB	00015406	00900000
1480	00000000	446B19BF	43134250	412CF41A	C19063C1	414804CE	00000000	00000000

0418/78-12/13/84

1	( 12200 )	478F6992	BU2025E7	42038899	4724CEAE	C1625985	428E7108	48185E04	382362CB	3A6A6E80	4072EED1
2	( 12240 )	000154D6	00500000	000119B0	000AFE25	00000000	444F8FF6	4316C1C1	411FE95F	414A625B	41AEFFFB
3	( 12280 )	00010000	00000000	00000000	00000000	00000000	41100000	47AF9EF7	42D5C72B	C11B4F21	C788626F
4	( 12320 )	C76ACFBE	C653A088	4183805B	C2235C0D	C110FB20	422260A2	478F69FD	BD1E842D	42D39662	4724D7EC
5	( 12360 )	C1E24DB3	428E7A6E	4815046C	381F19CF	3A5FCCDD	4C67F4A4	000154D6	00900000	000119B0	000AFE25
6	( 12400 )	00000000	4419CE11	43168E42	41256953	414613D9	41507242	00000000	00000000	00000000	00000000
7	( 12440 )	00000000	41100000	47AFBB37	42D9D038	C11B521B	C788580E	C76AED35	C653AF82	4183DE02	C2215907
8	( 12480 )	C110F966	42225F2D	405AD9D7	000154D6	000119B0	000AFE25	00000010	4467FC3E	4316A7CA	41251EDB
9	( 12520 )	3A54785A	405AD9D7	000154D6	00000000	000119B0	000AFE25	00000010	4467FC3E	4316A7CA	41251EDB
10	( 12560 )	41320838	41F118CE	00000000	00000000	00000000	00000000	00000000	41100000	47AF6C5E	42D9D876
11	( 12600 )	42D3AA67	4724E914	C7885455	C768383B	C6538D27	41840796	C2215703	C110F703	422250D8	478F6AC4
12	( 12640 )	000119B0	00000000	00000000	00000000	00000000	428E88D7	3A8E3F15	4099AB00	000154D6	40990000
13	( 12720 )	00000000	00000000	00000000	00000000	00000000	41100000	47AFD2F5	4203852C	00000000	00000000
14	( 12760 )	41843683	C221558C	42225C58	478F6B2F	BD19D887	4203852C	00011580	00000000	00000000	41100000
15	( 12800 )	48124458	38138BF4	3A504954	405EA921	000154D6	00000000	00000000	00000000	00000000	41100000
16	( 12840 )	431E6F05	412AA20F	411F2655	4153AF58	00000000	00000000	00000000	00000000	00000000	41100000
17	( 12880 )	47AF6ED4	42D9E489	C11B5AC1	C7884597	C76B82E3	C6530B11	418462C1	C2215367	C110F461	42225AEE
18	( 12920 )	478F6B94	BD185231	42D38F53	4724F802	C162202C	428E9E05	4813A67F	38138230	3A5502D9	405AF02C
19	( 12960 )	000154C6	00900000	000119B0	000AFE25	00000013	44776680	43161480	41105B56	C048A5E5	41863EDC
20	( 13000 )	441735E6	414337B3	411118AF	400CAF25	00000000	411CAA97	412D294C	47AF6C58	42D9FA63	C11B5E0E
21	( 13040 )	C1E21348	428EA80B	4811AAC6	38275CC9	3A4B3BC0	404F3A5E	000154D6	00900000	000119B0	000AFE25
22	( 13080 )	00000014	4474FEB1	43162EDF	C01CE3E8	4192DFC8	4192F3C0	418BE45C	41295555	40FC08D	408C6EA1
23	( 13120 )	49E93178	41A00000	47AFF7D3	42D9FD00	C11B6004	C7883679	C7687F11	C653F9A4	4184C000	C2214EDE
24	( 13200 )	C110F0D9	422257EE	478F6C60	BD1514FD	42D30481	000AFE25	00000015	44D5E478	4317CE5C	C1194502
25	( 13240 )	3A532085	4057F044	000154C6	00500000	000119B0	000AFE25	00000015	44D5E478	4317CE5C	C1194502
26	( 13280 )	C1116414	41C78689	4438608C	411C48E9	40F59888	41158DEE	4122E49F	41A00000	4780038C	42DA055E
27	( 13320 )	C11B63A9	C7882F73	C7689B23	C65407EC	418E87E8	C2214CC3	C110EF34	4222568C	478F6C04	BD139241
28	( 13360 )	42D3DEB1	472E15E6	C161FD51	428E8939	481C669C	386868D3	3A82C993	40950D5C	000154D6	00900000
29	( 13400 )	000119B0	00000000	00000000	00000000	00000000	C11938A8	C124C2C4	41A62A5B	441D3EBD	41815308
30	( 13440 )	409C3A97	40F0BAE5	40D6B419	41800000	47800E90	42DA0DCB	C11B6658	C78B28C7	C76B8E52	C6541574
31	( 13480 )	418514BE	C2214AC2	C110E0A4	42225538	478FD022	BD122397	42D3E825	47251E02	C161F2D1	428EC16B
32	( 13520 )	4818280E	384F50F2	3A71A9A2	40844AF8	000154D6	00000000	00000000	00000000	00000000	41100000
33	( 13560 )	43177FF0	C110BC20	C11ECE4C	41D09C85	00000000	00000000	00000000	00000000	00000000	41100000
34	( 13600 )	47813C14	42DA17C9	C11B69A2	C78820A8	C768D63A	C65425F8	41854709	C2214857	C110EBBE	422253A0
35	( 13640 )	478F6E9C	BD1C648F	42D3F38E	472527E9	C161E60F	428EC873	481D3746	3890CFCF	3A846162	40945160
36	( 13720 )	00000000	00900000	000119B1	00000000	00000000	44CA8F8E	431736DC	C0487651	C13DD177	42102F9C
37	( 13760 )	C76BF2C7	C654347B	41857344	C2214632	C110EA12	42225236	478F6E01	8CE0D866	42D3FDD0	4725309C
38	( 13800 )	C161D0A5	428ED43A	4823D57B	387F6A4B	3AAC8B18	40B192F0	000154C6	00900000	000119B1	000AFE26
39	( 13840 )	00000001	448914E5	43166383	C0547182	C166998B	41D2478F	00000000	00000000	00000000	00000000
40	( 13880 )	00000000	41100000	478033D7	42DA2958	C1186F67	C78B125C	C76C0F64	C6544307	41859F99	C221440C
41	( 13920 )	C11CE864	422250C8	478F6E66	8CD51685	42D4080A	47253954	C161CF93	428EDD08	481C0FAA	385E878E
42	( 13960 )	3A5278C	40815778	000154D6	00000000	00000000	00000000	00000000	00000000	00000000	401910AD
43	( 14000 )	C1187290	C78B0A85	C76C2EAF	C65452EF	41850015	C22141B2	C110E68F	42224F3E	478F6ED5	BC8A25C0
44	( 14040 )	42D4132A	4725420E	C161C343	428E8E67	4826928C	387332D4	3AA9A842	40B83400	000154D6	00900000
45	( 14120 )	000119B1	000AFE26	00000000	00000000	00000000	44505888	C6693966	C16E0037	41A03DE3	00000000
46	( 14160 )	00000000	00000000	00000000	00000000	00000000	41100000	47804C00	42DA3B32	C11B7546	C76CA583
47	( 14200 )	4185F9A5	C2213FAE	C110E4FC	42224DEA	478F6F34	BCA300D1	42D41CB4	4725490A	C1618887	428EEEE6
48	( 14240 )	4815FDE8	38382E42	3A61A655	4068367A	000154D6	00900000	000119B1	000AFE26	00000000	44C54014
49	( 14280 )	43167A71	C03CD05A	C1979317	41888EF1	00000000	00000000	00000000	00000000	00000000	41100000
50	( 14320 )	47805959	42DA450F	C11B7884	C78AF8C2	C76C69A0	C65470E6	41862867	C2213D45	C110E31A	42224C52
51	( 14360 )	478F6FA5	BC876843	42D4281F	472554D4	C161AC19	428EF8C3	48124BD5	384F6CC6	3A4F4F67	4055022A
52	( 14400 )	000154C6									

FILE 2 RECORD 394 LENGTH 86448BYTES

53	( 0 )	21C40000	00900000	0001514B	0000241D	00000002	44233E49	4313FB5	C0B9E3F9	41336824	3F331F6F
54	( 40 )	00000000	00000000	00000000	00000000	00000000	41100000	491637BE	4246C284	4131A8D9	4877F948
55	( 80 )	4314E129	48133784	41188C16	41D05174	40AB9AE6	41D29C4F	478C734E	8CA37E4E	4250A052	4515AD9F
56	( 120 )	41398030	431644D6	457B1977	354604F5	38257613	3E2D1A0F	000154D6	00900000	0001514B	000D241D
57	( 160 )	00000005	44139385	431938A4	401F8E19	4126C1F3	3F4065AE	00000000	00000000	00000000	00000000
58	( 200 )	00000000	41100000	431637B6	4246C284	4131A809	4877F948	4914E125	48133784	41188C16	41C05174
59	( 240 )	40AB84E6	41D29C4F	478C7344	BD437E3A	4250AD51	4515AD9F	4139EC30	431644D6	459AE4C5	3530FDE7
60	( 280 )	382F15CF	3E38A06E	000154D6	00900000	0001514B	000D241D	00000006	4A2FA5F8	43191840	402C2428

FILE	INPLY	DATA RECORDS	MAX. SIZE	PERM	ZERO	B	SHORT	UNDEF.	#RECS.	TOTAL#	INPUT RETRIES
( 8240 )	412467ED	3F21748A	00000000	00000000	00000000	00000000	00000000	00000000	41100000	49164798	4246CB92
( 8280 )	4131A6CB	4914F140	481344C3	4118844D	41003E00	40AB7418	41D29D26	478C4D88	BCDE4FCE		
( 8320 )	425FF260	4915C91B	41396D18	454E917E	3522F578	3817519B	3E18618A	00015406	00000000		
( 8360 )	0001515A	00000000	00000000	431F860C	43182081	412BE1F8	3F20E3E1	00000000	00000000		
( 8400 )	00000000	00000000	00000000	41100000	49164798	4246CB52	4131A6CB	4914F140	481344C3		
( 8440 )	4118844D	41D03E00	40AB7418	41D29D26	478C4D88	BCDE50FA	425FF260	4915C918	41396D18	43164562	
( 8480 )	454BAD8E	35137820	3816C1B8	3E195166	00015406	00000000	0000242C	00000014	44117041		
( 8520 )	491648A8	4246CC2E	4131A686	48781D94	4914F253	481345A5	411883C9	40AB72FA	41D281F6		
( 8560 )	478C4C80	3CE45827	4260F770	4915CB45	41396BCE	4316456C	45418442	3513A511	3812E060	3E15748F	
( 8600 )	000154D5										

FILE	RECORD	I	LENGTH	14404BYTES	0	0	0	0	0	0	0
( 40 )	38440000	00900000	0001194D	000AFE22	00000000	447371F2	431355D2	4122912E	C12C22CA	41615FC4	
( 40 )	4437C982	417ECA5C	4125DCAA	414DB913	411D1F55	42180000	47AC3620	42D71895	C11A63D1	C78D60E2	
( 80 )	C7E2327C	C64F380C	4175D88A	C221FD65	C1117B61	4222CC73	478F488E	BD964CAB	42D08E95	4722512B	
( 120 )	C1E55A7E	428BCA2E	4786E6D5	381A5C5C	3A285542	402EA41C	00015406	00900000	000115AE	000AFE23	
( 160 )	00000000	44560318	43152771	4118A448	C122B608	419B9EFE	44278A37	42139187	412588DC	414A294A	
( 200 )	41385627	424F8000	47AD0E16	42D7C3B2	C11A9FF0	C78CE819	C76454C4	C650509A	41795A80	C221D60A	
( 240 )	C111EBBC	422281F5	478F52CA	BD7A3F58	42C14D5E	4722EEC3	C16AC550	428C75E6	4813659E	381FC719	
( 320 )	3A4E7922	404EC4B4	000154D6	0001194F	000AFE24	00000000	00000000	44A61368	4314F36F	C0C18C55	
( 360 )	C1A4FD73	C78C1E71	C767C29C	C6521214	417E0F8C	C22195F1	C11128B9	42228714	478F5F30	BD4A1794	
( 400 )	42D2822A	4723EEA0	C1637CF5	4424781F	41888D52	41596265	413C8F6C	42180000	47AE6F4A	42D8D580	
( 440 )	00011980	C00AFE25	00000000	448B48C8	48171386	3A5DA648	405E1C0C	000154D6	00900000		
( 480 )	411CE039	412C20AC	41247199	42400000	47AFD3DC	42D9E200	C11B57FC	C78B488C	43DF17C	41FEC761	
( 520 )	41E438E8	42215550	C110F5E1	42225C31	478F6AF8	BC15CEB4	42D3F580	4724F330	C1622A20	428E959C	
( 560 )	48166819	38351CF5	3A63821C	406D7B7C	000154D6	00900000	00011981	000AFE26	00000000	44CB6F3E	
( 600 )	43177608	C13ED075	C125707A	41890851	4450E1C7	41CB9621	413C9F78	4161082E	4148659C	42168000	
( 640 )	478CADC3	42DA82CC	C1188CAA	C78AC868	C76D3390	C654D769	41876220	C2212E02	C110D73D	42224246	
( 680 )	47EF7268	3C2CAF61	42D47070	472592D5	C1615C42	428F36AC	48131F0E	38450F6B	3A5669AB	4060AAA7	
( 720 )	000154D6	00900000	00011982	000AFE27	00000000	44CA996F	43175C00	C0A64762	C0E43B4D	415E6C5D	
( 760 )	446888D4	42103436	411ACC7B	414E60AA	4140B488	42170000	4781E0A4	42D860A6	C118D413	C78A0B58	
( 800 )	C770ADCC	C65647EC	418BB48E	C220F68F	C11CAC7D	42221E0B	478F7C76	3D2598EF	42D5740B	47267506	
( 840 )	C163A6C	425C14FB	481676FF	384E485A	3A673994	4C757638	000154D6	00900000	00011983	000AFE28	
( 880 )	00000000	445D1888	43166984	40A19EF2	C0C2C659	4153782A	4445C993	41D89C39	41148B89	41385F48	
( 920 )	C113D491	42170000	478306D3	42DC308D	C11C158A	C7895239	C7728995	C657A2B6	418F8623	C220C1FA	
( 960 )	3A3359E	4033A1DD	000154D6	C05C0000	00011984	000AFE29	00000000	4480E1C5	43167398	407AE90C	
( 1040 )	C12FBAAC	41286A34	4445C0A6	41E3E273	412629B2	411D82C1	411162F8	42178000	47842893	42D0CF89	
( 1080 )	C11C53FB	C7896668	C7558B68	472829CC	C15E1280	4251808B	475DC1B1	37C48CE4	3A19A1F5	401BC5A8	
( 1120 )	42D75EAE	472829CC	C15E1280	4251808B	475DC1B1	37C48CE4	3A19A1F5	401BC5A8	000154D6	00900000	
( 1160 )	00011985	000AFE2A	00000000	444483DA	4315A35D	411252AF	C12F88A9	41518C3B	400154D6	00900000	
( 1200 )	415815C	42257853	41195F5E	42168000	478560EC	42D0CDA4	C11C9322	C787C226	C7781976	C65A5624	
( 1240 )	41978487	C220569F	C11032AC	4221865D	4078F927	3D65C8C4	42D85E16	47291256	C15CF188	429282C0	
( 1280 )	47A53593	37DAC0D8	3A283DF6	40288FBD	000154D6	00900000	00011987	000AFE2C	00000000	442D7772	
( 1320 )	431195F5	4063D75C	C1183E8E	4181BBF1	43F30482	4188041B	40D97C10	412FA948	411673EE	42170000	
( 1360 )	478F68C8	42DF5885	C11D05E1	C78639A9	C77D4ED7	C65CFE2E	419ECE32	C21FEC82	C0FE37C8	422172AD	
( 1400 )	000154D6	00900000	00011988	000AFE2D	00000000	45148108	431434F7	414ABCE1	C1580183	41564690	
( 1440 )	4517CF6C	4219120F	41472067	4145C346	411FE447	42378000	47894ECA	42E05842	C11D4E34	C7852191	
( 1520 )	C78C2229	C65EA693	41A370E7	47A25011	38495888	C0A2832A	42214583	3D6A22CA	42D88EE2	472C160C	
( 1560 )	C159AE37	429510C6	47A25011	38495888	C0A2832A	42214583	3D6A22CA	42D88EE2	472C160C	000AFE2E	
( 1600 )	00000000	451984F6	43153776	4128A956	C1A480CF	41982828	449EA3D1	41B7C280	41875395	4155F8AA	
( 1640 )	41360188	42180000	478A27F5	42E0E300	C11D7315	C78489EF	C782938D	C65F8D08	41A5E721	C21F7FCC	
( 1680 )	C0F534CA	42212DA1	478FBEC6	3D5FC85E	42DC3CB5	472CBFB2	C15887AB	42559272	48133A77	38948FE6	
( 1720 )	3A4EAF14	404FAE5F	000154D6	00500000	0001198A	000AFE25	00000000	44C3B421	4317EFF8	C117A43D	
( 1760 )	C11EFA3A	41A4A259	4A989686	41DC3320	4128D23E	41411C3B	41124AD2	42170000	478B5985	42E19E99	
( 1800 )	C11DA538	C783B17C	C7851C86	C660C070	41A93871	C21F4AD6	C0F6C9C8	42210C31	478FC800	3D4C3389	
( 1840 )	42DD3016	472DB016	C15770E5	42555460	47A53A14	38258819	3A3D0EC7	4037E668	000154D6	00900000	
( 1880 )	0001198B	000AFE26	00000000	44C6FE95	4316F757	41247000	C12059AA	41555074	44898F25	41FD2821	
( 1920 )	41247E0E	41377635	412A53D7	42180000	478C990C	42E2602A	C1100772	C782CB80	C7878C08	C66217C8	

Ohlshbe - 11/04/84

Shnel

( 12520)	35B287CA	3FB	C1952	6615406	00500000	00011A07	000AFF4D	00000600	445790CA	43145838	C12A852A
( 12560)	C123A818	40982480	442A3147	41921288	41921288	412650E1	4114AFCA	404989A4	42160000	481209E7	43106FF5
( 12600)	C128E91B	4726C0C7	C811E154	C6A990DD	4210FF42	C210FF42	C0704F08	4218DC61	4218DC61	4790FFAF	3E1358A0
( 12640)	C1326FEC	C786BA10	C111896A	42BB7EA2	471245B9	371C84CE	39474B58	3F4458D0	000154D6	000154D6	00500000
( 12680)	00011A08	000AFF4E	00000070	42D0DB25	4312E9C8	411C0561	C12AE58C	4122425A	43C50208	43C50208	415AF372
( 12720)	41156DF9	4112A2FF	40D219D0	42190000	48121EAD	431074EE	C12080AE	C7235C2A	C811F204	C6A52347	C6A52347
( 12760)	42110335	C212035F	C06F20BF	4218C842	475CFD19	3E13A543	43127F1A	4789433D	C11111F8	428BCD5C	428BCD5C
( 12800)	47415329	373BA20D	39FBF33	3FF05066	000154D6	000154D6	00011A09	000AFF4F	00000000	00000000	44E8E2A0
( 12840)	43143FD0	41257EAB	C13D7714	4143A6A8	44568F09	4133A449	41162275	411381A0	42140000	42140000	42140000
( 12880)	4812348C	43107A24	C120A791	C721E258	C81211EC	C6A58CB9	4211072F	C211E255	C06DFE9C	42188326	42188326
( 12920)	000154D6	00900000	0011A0A	000AFF50	00011A0C	00011A0C	44AC5854	43162616	3A1F5818	401E698C	401E698C
( 13000)	44350C1A6	4196868C	41234EA9	4118AC1A	4067DB34	42180000	481248A6	43107EE2	C1209F08	C72086FE	C72086FE
( 13040)	C81228A3	C6A6483B	42110AA0	C211C444	C06CEAF2	42189FE4	479DF75E	3E128223	43129DEC	47BE756A	47BE756A
( 13080)	C0FC21AA	428C6B35	4755AADC	37F6E88A	3A16F135	4C1852A7	000154D6	00900000	00011A0B	000AFF51	000AFF51
( 13120)	00010000	44D92DF4	43188D40	C124AAD6	C1168600	41215701	44451008	41D70EFD	41277860	4116538E	4116538E
( 13160)	406716C5	42170000	48125D98	431083CA	C12095F9	C71F1C5E	C812402B	C6A6D849	42110E06	C211A528	C211A528
( 13200)	C06BCE36	42188BED	479CF441	3E117F68	4312AD53	47C1137A	C0F1C6DE	42E8C8E9	474F6C8A	3812331F	3812331F
( 13240)	3A171768	40181382	000154D6	00500000	00011A0C	00011A0C	00000000	44830688	43192385	C11551A4	C11551A4
( 13280)	C1223D39	41110BE3	4432646A	4191579C	411AF2CF	4117CF50	4050BA86	42170000	48127242	43108898	43108898
( 13320)	C1218CE0	C71DB5C4	C8125746	C6A76532	42111133	C21186AB	C06AB7A0	42187852	4790F10F	30FE802C	30FE802C
( 13360)	43128C88	47C3AD42	C0E7ACE9	42ED0516	4728B559	375AC5D1	39C2AB64	3FE808DE	000154D6	00500000	00500000
( 13400)	00011A0D	000AFF53	00000000	44726F30	4319087D	C07A903D	C12F0FB3	40CFAB5E	44181EE6	418EC1DC	418EC1DC
( 13440)	411280D2	4110AC80	40181720	42170000	4812A730	431108D6D	C1208380	C71CA9E0	C8126E8A	C6A7E298	C6A7E298
( 13480)	42111437	C2116805	C0699FED	42186487	479CE0AB	30DF35DE	4312CBF9	47C6540B	C0DD68F4	428D51A6	428D51A6
( 13520)	471F0336	373A71BF	3955EAD2	3FB34859	000154D6	00011A0E	000AFF5A	00000000	00000000	445A2856	445A2856
( 13560)	43187AE0	411D6716	C12F9847	41176E66	4416EBE0	417E72AE	411236A9	41184868	40A107D1	42170000	42170000
( 13600)	48129897	4310921A	C1207A34	C71AE67F	C8128519	C6A87840	421116FE	C2114A58	C068919B	42185148	42185148
( 13640)	475EA3D	3DBCCAC8	4312DB08	47C8EDF4	00038A59	42B09882	4735E8D6	374E28C4	3A1046E9	4013181E	4013181E
( 13680)	000154D6	00900000	0011A0F	000AFF55	00000000	44D110AA	4319CE75	408133DD	C15A521C	4121FFED	4121FFED
( 13720)	44566A09	41A50184	4115F16A	41167262	4080D7CE	42150000	4812B086	431096F9	C120706D	C719758F	C719758F
( 13800)	C095086	428DE7DB	428077C	421128D3	C0677C03	42183D6C	4790E690	3096B75E	4312EAAA	000AFF56	000AFF56
( 13840)	00010000	45109AEC	431A0D40	431458A0	C14C57D5	4122E8A0	4465EE9E	4171F584	41176375	4119438E	4119438E
( 13880)	40AC46D3	42160000	4812C4C0	4310986D	C21206702	C718173D	C812B23F	C6A98B60	42111C12	C2110F12	C2110F12
( 13920)	C6E676E8	42182AA2	479CE2F3	3D72194A	4312F982	47CE3ADD	C0BECCFA	42BE2E8E	475688BF2	3818ACA7	3818ACA7
( 13960)	3A182028	4021A543	000154D6	00500000	00011A11	000AFF57	00000000	44A9D224	431C410A	405F34E5	405F34E5
( 14000)	C136C8B8	41172162	442658F8	41988C2D	40DF9184	41105AD6	406C5297	42160000	4812D9DD	4310A02A	4310A02A
( 14040)	C1255CF0	C716A515	C812C938	C6AA1525	42111E6C	C210F0F8	C06565FD	421816EC	4790DF06	3D4D1601	3D4D1601
( 14080)	4313092E	47DF99D0	C0B5C61B	473E7A8B	473A4788	37AC5823	3A1533F8	401C924F	000154D6	00900000	00900000
( 14120)	00011A12	000AFF58	00000000	448048BA	431C17AD	C118732D	C1177E68	40CFA82E	44D38FC	413CAE80	413CAE80
( 14160)	40A5AC80	408D3531	40313C6C	41800000	4812E7E7	4310A350	C120562A	C715AD3C	C812D880	C6AA706A	C6AA706A
( 14200)	421111F5	C210D001	C0648122	421809D6	4750DC58	3D361C34	433313A9	47D2D13C	C0AF1EE4	428EAC58	428EAC58
( 14240)	4722D286	375A1E20	398CF010	3FFD7EAA	000154D6	00500000	00011A13	000AFF59	00000000	44A83F5E	44A83F5E
( 14280)	43191506	C088C317	C07E59C3	40A3A9E7	4418BC0F	415E0718	40E48EE1	41100075	4023A66F	41D00000	41D00000
( 14320)	4813074A	4310AA3D	C12046CD	C12386AC	C812FA3C	C6AB3951	421128E8	C210BDEF	C06322C2	4217ECEF	4217ECEF
( 14360)	47506629	3CC7F132	43132AFB	47D6F0C6	C0AC0706C	428F1A19	47187881	371E5E17	3976668E	3F80AF4C	3F80AF4C
( 14400)	000154D6										

FILE 3 RECORD 44 LENGTH 56208BYTES

( 0)	15F4000	00900000	00015124	000D2380	00000000	441E0932	431959E4	40EC25FC	412D0046	3F24A282	3F24A282
( 40)	43D56895	418A553B	404E167	4030C2CA	3F15182A	414E0000	4916CEBF	4246AAF8	4131AB40	4877A160	4877A160
( 80)	491487A8	48131557	411BA0C6	41D081E0	40AB080	41D2E88A	47807E15	30654538	42295C4F	491593AE	491593AE
( 120)	413981D8	4316A368	45812CF8	353275C5	381AC4EE	3E2D033F	000154D6	00900000	00015125	000D23B1	000D23B1
( 160)	00000000	442F6A39	43194111	40A34E08	411E41F5	3F1F4C2E	4418EE5C	4197CA11	4116AD2A	40AAEE5	40AAEE5
( 200)	3F1E23F0	41200000	4916CF74	4246AB67	4131AB32	4877A2E8	4914EE60	481315EF	411BA0C5	41D08110	41D08110
( 240)	4ABAF0C0	41D2F3C8	478D77E0	3D75A005	422A475D	49159399	413980FE	4316A36F	4548889D	352EF1DC	352EF1DC
( 280)	38170811	3E18D15C	000154D6	00900000	00015126	000D23B2	00000000	44169EEF	43194C8E	41107F98	41107F98
( 320)	412A698E	3F1A820F	41310ECC	41411083	40FC0A36	41C0C874B	3EE28D0C	41200000	49161193	4246ACA5	4246ACA5
( 360)	4131A807	4877A77E	4514BA86	48131784	4118F5F1	41D07E48	40ABAD80	41D2E588	478D656E	3DB80F60	3DB80F60
( 400)	422C4903	49159376	4139AE67	43164382	453FC997	3517F4C8	38136655	3E1757D0	000154D6	00900000	00900000
( 440)	C0C15127	000C23B3	C0000000	441F6915	4315D688	414B50FA	411FDA4A	3F24836A	43A59E7E	417E6445	417E6445
( 480)	4CF4F365	40D6E110	3EE6EA3B	41800000	451611D6	4246ACCA	4131AB00	49148ACA	481317EB	481317EB	481317EB
( 520)	4189F2E	41D07E32	40ABAD38	41D2E4E2	478D631A	3D89FEA2	422C8934	42159375	4139AE0E	43164384	43164384
( 560)	4559D706	352B4936	381BF33F	3E226996	000154D6	00900000	00015128	000D23B4	00000000	44179779	44179779
( 600)	431966AA	411E33AA	412C007C	3F238388	438DF792	4175EE5E	40881770	41139E17	3F10A594	41600000	41600000

FILE	RECORD	INPUT RECS.	DATA INPUT	RECORDS INPUT	MAX. SIZE	PERM ZERO B	SHORT	UNDEF.	#RECS.	TOTAL#	INPUT RETRIES
( 3280 )	424000C3	4915A720	41398679	431644AA	458C8E3C	3560C2C6	382C0019	3E364A46	000154D6	00900000	00900000
( 3320 )	00C15147	00000000	4431AB75	4319F0A7	408B0F50	408B0F50	411ED1F3	3F3D1020	4367DEE7	41B35504	41B35504
( 3360 )	411E225C	402673BB	3EBA45AC	41200000	4916337A	4246C01E	4131A85E	4877F034	4914CCDE	481333FB	481333FB
( 3400 )	41188E2E	41D00567D	40AB8960	41D28390	478C8548	BCB78028	42405C88	4915A7E8	4139E857	43164480	43164480
( 3440 )	4596ABF0	35775657	382F00BA	3E3A07E9	000154D6	00900000	0000241A	00000000	00000000	4423C938	4423C938
( 3480 )	4319C043	3F2542C9	414F5C72	3F35F376	43534570	416EDD08	404E6D58	41121919	3F29124F	41380000	41380000
( 3520 )	451E3488	4246C0B6	4131A848	4877F272	4914DDF0	481334DC	4118D0A8	41005520	40AB884C	41C28292	41C28292
( 3560 )	478C8072	BD3088FC	424DA00B	4915A946	413983FE	431644BA	4583E19B	3547D568	3828BFE6	3E31D276	3E31D276
( 3600 )	000154D6	00900000	00015149	0000241B	00000000	44180BE2	43198192	C0268DE6	412C4147	3F3E76CE	3F3E76CE
( 3640 )	435944CA	417502A8	40584777	40638CA1	3F1C4852	414E0000	491633FE2	4246C180	4131A82C	4877F57C	4877F57C
( 3680 )	4914DF5F	4813360A	41188CF5	41D05383	40AB86C0	41D05383	478C7A63	BC64AEC7	424EF8B5	4915AB2A	4915AB2A
( 3720 )	4139824A	431644C6	45989EAF	35401327	382E2403	3E399F3C	000154D6	00900000	0001514A	000D241C	000D241C
( 3760 )	000154D6	444E834D	4319824F	41124AF7	41306D50	3F2A852B	4426870B	4136D861	40F1E488	40E23DA6	40E23DA6
( 3800 )	3F29DA93	416C0000	4516375B	478C7448	8D97315A	4915AD1F	4139809A	431644D3	456785B5	35966185	35966185
( 3840 )	40A88540	41D2988D	478C7448	8D97315A	42505698	4915AD1F	4139809A	431644D3	456785B5	35966185	35966185
( 3880 )	381FF89A	3E26FE8B	000154D6	00900000	0001514B	4069C3EC	410FDFE1	3E0828A5	41400000	4916337B6	4246C284
( 3920 )	412B0D2A	3F39F098	43BCCFE4	4188F519	4069C3EC	410FDFE1	3E0828A5	41400000	4916337B6	4246C284	4246C284
( 3960 )	4131A8C9	4877F944	4514E129	48133784	4118C116	41D05170	40AB84E0	41D29243	478C7340	4DA37F40	4DA37F40
( 4000 )	425AD50	4915AD99	41398030	431644D6	458C48B0	3543F778	382A4F02	3E340E2A	000154D6	00900000	00900000
( 4040 )	0001514C	000D241E	00000000	441881F5	431A3A35	BF8AB904	41278894	3F40DF56	43F24903	490CC470	490CC470
( 4080 )	402590C3	4016EA65	3F4C0563	41180000	49163904	478C6B78	8CE12F40	425285F2	4515B08C	41397D9E	41397D9E
( 4120 )	4118889A	41D04EF5	40AB8240	41D28060	478C6B78	8CE12F40	425285F2	4515B08C	41397D9E	41397D9E	41397D9E
( 4160 )	45A22E63	352F588F	383330FA	3E40008E	000154D6	00900000	0001514D	000D241F	00000000	44227638	44227638
( 4200 )	43196D5C	C058A9E8	412DD448	4F5415C2	4415FB83	418E13C1	40616668	408BE6AF	3E2C8769	41600000	41600000
( 4240 )	49163AB6	4246C43A	4131A7CA	4877FF82	4914E433	481334C4	4118E458	41D04DE5	40AB8180	41D284C0	41D284C0
( 4280 )	478C687A	BDF3A9F5	42538EDA	4915B215	41397C8A	431644F0	45CB4D75	356FFEC1D	383E267A	3E483345	3E483345
( 4320 )	000154D6	00900000	0001514E	000D2420	00000000	44220490	43195F3E	C015234D	411E3003	3F462852	3F462852
( 4360 )	438E22F6	41642584	4CAB8A57	40E020E8	3F32CDB8	41D285A2	478C67E2	8CF75884	4253BA36	49158258	49158258
( 4400 )	4514E461	48133A2A	41188A85	41D04D80	40AB8180	41D285A2	478C67E2	8CF75884	4253BA36	49158258	49158258
( 4440 )	41397C54	431644F2	45A9F9E2	355AF8B9	38340E09	3E3F1780	0001514F	00900000	0001514F	000D2421	000D2421
( 4480 )	00015000	44277663	4318F361	4113D358	4148D988	3F7ED098	44134856	4180D800	411690B1	4120175F	4120175F
( 4520 )	3ECC1592	41880000	49163BF2	4246C4F0	4131A7B0	48784252	4914E574	48133B9C	411A7C3	35C188A1	35C188A1
( 4560 )	4CAB8061	41D28041	478C687A	8E106796	4254BEA5	4515B400	4139780F	431644FC	4611A7C3	35C188A1	35C188A1
( 4600 )	385420E9	3E632AD4	000154D6	00900000	00015150	000D2422	00000000	442EDD4D	4319CC02	C0C866EC0	C0C866EC0
( 4640 )	4123F4F6	3F4F2888	48166688	48133BEE	4118857A	41D04B35	40AB87E5	41C282FF	000154D6	00900000	00900000
( 4680 )	4131A79F	487804A0	4514E686	48133BEE	4118857A	41D04B35	40AB87E5	41C282FF	000154D6	00900000	00900000
( 4720 )	425C325	4915B98A	413979CB	43164505	45C2E880	35A8FE05	383C8AC8	3E4AAE1F	000154D6	00900000	00900000
( 4760 )	00015151	000D2423	00000000	443E7E73	431997D2	C02A331E	41328753	3F54DAAD	441073A8	4150A814	4150A814
( 4800 )	41155D0E	40EE4E0E	3F1CF31A	41A00000	49163E82	4246C6E4	4131A780	4878079E	4914E7E8	48133D13	48133D13
( 4840 )	411888CC	41D0C991	4CAB7DCB	41D02A5D	478C5D83	BE1CADA9	425715C4	49158803	41397821	431644511	431644511
( 4880 )	45CEEE9C	35C7F808	383FC949	3E40CC71	000154D6	00900000	00015152	000D2424	00000000	44280D28	44280D28
( 4920 )	43192278	C05F32CC	413CE568	3F350AA0	43F8AB65	41348923	40937830	4073D786	3F1947A0	41500000	41500000
( 4960 )	45163FF8	4246C740	4131A763	48780AF3	4914E987	48133E67	4138E806	41C0A78C	40AB7C1C	41D292A6	41D292A6
( 5000 )	478C59DC	B0F810E6	42589CA9	4915BABC	41397639	4316451F	497EE053	3826639F	3E2DF054	3E2DF054	3E2DF054
( 5040 )	000154D6	00900000	00015153	000D2425	00000000	443861D6	4318CC52	C0480E2C	4128EFB3	3F4733CC	3F4733CC
( 5080 )	4418117	41E4CB3F	40BACA2B	403244D4	3F13282C	41400000	49164C2F	4246C760	4131A75F	48780868	48780868
( 5120 )	4514E58E	48133E95	411887EC	41D04780	40AB7BE4	41D28FF4	478C5560	BDF4DA64	4258D0C4	4915881A	4915881A
( 5160 )	413975FA	43164521	45A739F4	35A4C33C	3831AE85	3E3A72EC	000154D6	00900000	00015156	000D2428	000D2428
( 5200 )	00000000	4422FF40	4318FEAC	3F9CAED0	41303A1E	3F29951D	4386A759	413B76DA	4075D875	40E95134	40E95134
( 5240 )	3E1E6F04	414C0000	491644E8	4246C9C4	4131A70A	487E14E0	4934EE08	4813421D	411885D5	41C04284	41C04284
( 5280 )	40AB7770	41D2120	478C5184	BD7A70FC	425CE384	4515C208	413970E6	4563566F	35348102	C01E2229	C01E2229
( 5320 )	381DFEBA	3E23D563	000154D6	00900000	00015159	000D2428	00000000	441E5A6A	43193262	4246C82E	4246C82E
( 5360 )	41219876	3F2F417E	4384784A	41AD1F93	40643C36	4115FA7A	41E00000	491646F2	478C4E38	BD22594E	BD22594E
( 5400 )	4131A6D3	487819E6	4914F098	48134439	41188498	41D03FE9	40AB748C	41D29074	478C4E38	BD22594E	BD22594E
( 5440 )	425F33F0	4915C7CE	41396DD4	43164558	45722484	35398AA4	3822E088	3E2A34A0	000154D6	00900000	00900000
( 5480 )	0001515A	400D242C	00000000	44105C50	4317FB95	C0B00150	4133E19A	3F1EE595	43198834	413510E5	413510E5
( 5520 )	411530F5	40C7A33C	3E2D182A	41200000	4246CBE0	49164820	4246CBE0	48781C71	4914F1C9	48134534	48134534
( 5560 )	4118840B	41D0C3E0	40AB7388	41D02A78	478C4D00	383C51E8	426074E8	4915CA30	41396C73	43164567	43164567
( 5600 )	454680E8	35138E98	381471D0	3E1762FA	000154D6						

03/24/72-08/28/87

FILE 3 44 45 14404 13604 BYTES  
 RECORD 0 3524000 0044000 00CAFDC4 0256D780  
 LENGTH 1  
 INPUT 45  
 DATA INPUT 45  
 RECORDS INPUT 44  
 MAX. SIZE 14404  
 PERM ZERO B 0  
 SHORT 0  
 UNDEF. C  
 #RECS. 0  
 TOTAL# 0  
 INPUT RETRIES 0

FILE 0 3524000 0044000 00CAFDC4 0256D780  
 LENGTH 1  
 INPUT 45  
 DATA INPUT 45  
 RECORDS INPUT 44  
 MAX. SIZE 14404  
 PERM ZERO B 0  
 SHORT 0  
 UNDEF. C  
 #RECS. 0  
 TOTAL# 0  
 INPUT RETRIES 0

C1153E05 C225C9A7 C120CEBC C627288F C7178C22 C75398F3 C1178C22 C627288F C120CEBC C225C9A7 C1153E05

( 13240) 478F1421 C11DA3D9 4117A3D 8D2310A0 41189117 4817D129 00440000 0008001D 0296D780 4730D33B  
 ( 13280) C811BB2 421CDEFA C1E75646 C03593CE 481770F2 42146599 478F09E4 C1D973A 43117D09  
 ( 13320) 8D21888C 41283DE6 4818C0FF C0440000 C0C8001E 0256D780 473F36F5 C8172AC1 C6C1A454 4210DBD4  
 ( 13360) C1862C2D C034F7B5 4817837F 421458CA 478EFFAB C1D08A9B 431170FF 8D167120 481830C7  
 ( 13400) 00440000 0008001F 0296D780 47409A75 C8173987 C6C1E9C2 4210D8A4 C0345C02 48179603  
 ( 13440) 42144CC2 478EF575 C11D7DFB 431182F1 EC2A21FF 41479F36 48186C80 00440000 00080020 0296D780  
 ( 13480) 4741FDAC C8174896 C6C22E65 4210D56A C1B3D0F1 C033C324 4817AE7E 42143F32 478EE84C C11D7158  
 ( 13520) 431185D0 3D187380 415753D3 4818902A 00440000 00080021 0296D780 474360A0 C817575C C6C2723F  
 ( 13560) 4211D227 C1B2B9C5 C0332AA5 4817BAF0 42143295 478EE109 C11D6488 4311188C8 3038F040 41670B19  
 ( 13600) 4818BFC4

FILE 4 RECORD 34 LENGTH 10680 BYTES

( 0)	29880000	00440000	000D49AC	00000000	487A3D7E	4915F523	48141AE9	411B08FC	41CF109B	40AA8CE0
( 40)	417485E	41D129A8	479C2335	431933AB	42475730	3C8E897E	4314E2DE	49175C15	00440000	000D49AD
( 80)	6CC00CC	487A3FB9	4915F634	48141BCA	411B0886	41CF1C72	40AA88D9	4917456C	41D131C5	47901AC1
( 120)	4319398	4247578B	3DB1E3DF	4314F254	49175AAC	00440000	000D49AD	00000000	487A41F3	4915F745
( 160)	48141CAB	411B080F	41CF1B4A	40AA8AD3	49174A7A	41D13F23	47901229	41319384	42475846	3DD1A93F
( 200)	431501CA	49175951	00440050	000D49AF	00000000	487A442D	4915F5E5	48141D8C	411B0A98	41CF1A22
( 240)	40AA89C0	49174888	41D14F9C	47500970	41319370	424758D2	3DC073F	42151142	491757F6	00440000
( 280)	000D49F5	00000000	487A4668	4915F967	48141E6D	411B0A21	41CF18FA	40AA88C7	49174C96	41D15EDA
( 320)	47500099	4131935C	42475960	3DFF551F	43152088	49175699	00440000	000D49F6	00000000	487A48A2
( 360)	4815FA78	48141FAE	411B09AA	41CF17D3	40AA87C1	49174DA3	41D1688C	478FF7A8	41315342	424759EE
( 400)	3E1A3CC	43153036	4917553C	00440000	000D49F7	00000000	487A4ADC	4915F889	4814202E	411B0933
( 440)	41CF16AB	40AA868C	49174EB1	41D16E3E	478EE9F	41319334	42475A7D	3E1089E8	43153E83	491753DE
( 480)	00440000	000D49F8	00000000	487A4D17	4915FC9A	481421C0	411B0C8D	41CF1584	40AA85B6	49174FBF
( 520)	41D167E4	478FE584	41319320	4247580B	3E1432FC	43154E31	49175280	00440000	000D45E5	00000000
( 560)	487A4F51	4915F0AB	481421F0	411B0846	41CF145C	40AA84B1	491750CD	41D15648	478FDC5A	4131930C
( 600)	42475899	3DFF1157	43155EB1	49175121	00440000	000D49FA	00000000	487A518B	4915FEBC	481422D1
( 640)	411B07CF	41CF1335	40AA83AC	491751DB	41D13E8A	478D324	413152F8	42475C26	3DD63A3F	43156E32
( 680)	49174FC3	00440000	000D49FB	00000000	487A53C5	4515FFC0	48142382	411B0759	41CF120F	40AA82A7
( 720)	491752E9	41D127F8	478FC9E5	413192E4	42475C81	3DB4359F	431570B5	49174E64	00440000	000D49FC
( 760)	00000000	487A55FF	491600DE	48142492	411B08E2	41CF10E7	40AA81A2	491753F7	41D11872	478FC09E
( 800)	413192D0	42475D3B	3D8D289F	43158D3A	49174D06	00440000	000D45FC	00000000	00000000	491601EF
( 840)	48142573	411B056C	41CF0FC1	40AA809D	49175505	41D113A0	478FB751	413192BC	42475DC5	3DE3338E
( 880)	43159CC1	491749A7	00440000	000D49FE	00000000	487A5A74	49160300	48142654	411B05F5	41CF0E9A
( 920)	40AA7F99	49175613	41D118F3	478EADF0	41319288	42475E4E	3D39E13F	415AC5A4	491744A4	00440000
( 960)	000D49FF	00000000	487A5CAE	49160411	48142735	411B057F	41CF0073	40AA7E54	49175721	41D124E1
( 1000)	478FA4A1	41319294	42475E08	3D1283FF	43158BD5	491748E0	00440000	00000000	00000000	487A5E58
( 1040)	49160522	48142836	411B0508	41CF0C4D	40AA7D90	4917582F	41D132E4	478F9B3B	41319280	42475F63
( 1080)	B0120FF	4315C863	45174751	487A5A01	000D4A01	00000000	487A6121	49160633	481422FE	411B0492
( 1120)	41CF0827	40AA7C8C	4917593C	41D13F3D	478F93CA	4131926C	42475FEF	8D2D131F	4315DAF3	49174636
( 1160)	00440000	000D4A02	00000000	487A635B	4916D744	481429D7	411B041C	41CF0A01	40AA7888	49175A48
( 1200)	41D1475F	478F88AC	41319258	4247607C	ED42D08F	4315EA86	491744D0	00440000	000D4A03	00000000
( 1240)	487A6595	49160855	48142AB8	411B03A5	41CF0808	40AA7858	4917585E	41D14816	478F7E8F	41319244
( 1280)	42476108	B050A7DF	4315FA18	49174384	00440000	000D4A04	00000000	487A67CF	49160966	48142899
( 1320)	411B032F	41CF07B5	40AA7981	49175C66	41D14949	478F7522	41319230	42476195	B0563B3F	43160982
( 1360)	4917422E	00440000	000D4ACE	00000000	487A6A09	45160A76	48142C75	411B0289	41CF068F	40AA787E
( 1400)	49175D74	41D142DD	478F6872	4131921C	42476222	B05384DF	4316154C	45174D09	00440000	000D4A06
( 1440)	00000000	487A6C43	49160887	48142D5A	411B0243	41CF0569	40AA777A	49175E82	41D138AE	478F61AF
( 1480)	41319208	424762AE	B048CECC	431628E8	49173E86	00440000	000D4A07	00000000	487A6E7C	49160C98
( 1520)	48142E38	411B01CC	41CF0444	40AA7677	49175F90	41D128FB	478F57D7	413191F4	4247633A	B036ACFF
( 1560)	43163887	49173E35	00440000	000D4A08	00000000	487A7086	49160DAS	48142E18	411B015E	41CF031E
( 1600)	40AA7574	4917609E	41D11E4E	478F4DEA	413191E1	424763C5	B01DFABF	43164828	49173CE6	00440000
( 1640)	000D4A09	00000000	487A72EF	49160E8A	48142FEF	411B03E0	41CF01F5	40AA7471	491761AC	41D11176
( 1680)	478F43E6	413191C0	4247644E	3B27DFFF	43165788	45173898	00440000	000D4ACA	00000000	487A7529
( 1720)	49160FCB	481340D0	411B066A	41CF00D4	40AA736F	4917628A	41D10771	478F59C8	413191B9	424764D8
( 1760)	3D2859FB	43166771	49173A51	00440000	000D4A08	00000000	487A7763	491610DC	481431BE	411AFFF4
( 1800)	41CEFFAF	40AA726C	491763C7	41D10220	478F2F99	413191A5	42476560	3D46FF1F	43167715	49173908
( 1840)	00440000	000D4A0C	00000000	487A799C	491611E0	4814325E	411AFF70	41CEFE8A	40AA716A	451764D5
( 1880)	41D102DE	478F2551	41319191	424765E9	3D6C3CC3	491737C8	00440000	000D4A0D	00000000	00000000
( 1920)	487A78C6	491612FE	411A4F07	41CF0075	40AA7068	491765E3	41D10A12	478F1AF2	478F1AF2	4131917D
( 1960)	42476672	3D5C56D0	41167034	49173688	00440000	000D4ACE	00000000	487A7E0F	4916140F	48143460
( 2000)	411AFE91	41CEFC40	40AA6F66	491766F1	41D116E7	478F107E	41319169	424766FC	3DB129FF	41261ECB
( 2040)	4917354C	00440000	000D4A0E	487A8048	49161520	48143540	411AE1E8	41CEFB1B	41CEFB1B	40AA6E64
( 2080)	451767FF	41D12730	478F05F7	41319155	42476786	3DCE2E5F	41350F88	49173413	00440000	000D4A10
( 2120)	00000000	487A8282	45161630	48143621	411AFDA5	41CEFF97	40AA6062	4517650D	41D13754	478EF860

FILE	RECORD	INPUT	DATA RECORDS	MAX. SIZE	PERM	ZERO	B	SHORT	UNDEF.	#RECS.	TOTAL#	INPUT RETRIES
( 1080)	48788583	491692BE	48149CAE	411AC845	41CE7575	4C45FB2A	4917E442	478C6AA1	41318844			
( 10120)	4247A6B5	B081AAFF	427A3174	49178C21	00440000	000060FC	00000000	487887E8	491693CE	48149D8F		
( 10160)	411AC7D4	41CE7454	40A9FA36	4917E54F	41DC8598	478C6DFF	41318831	8DAACADF	427B35EF			
( 10200)	45178F22	00440000	000060FC	00000000	487BB81D	451694DE	48145E6F	411AC762	41CE7332	48A9F942		
( 10240)	4917E650	41D08E24	478C7184	41318810	427A78E	BDD1697F	427C3A57	4917922A	00440000	00006DFF		
( 10320)	00000000	48788C52	491695EF	48149F4F	411AC6E1	41CE7211	40A9E84E	4917E76A	41D09AF3	478C7533		
( 10360)	4131880A	4247A843	B0F3707F	427D3EAC	49179539	00440000	000060FC	00000000	48788E87	491696FF		
( 10400)	427E42ED	4917984E	00440000	000060FC	41DCA838	478C750E	413187E5	4247A8C5	4247A8C5	BE10F68F		
( 10440)	4CA9F665	4917E985	41D0B2FF	478C7D18	413187E3	4247A950	BE123FEF	427E4718	49179869	00440000		
( 10480)	000060FC	00000000	487892F0	4916991F	4814A1EF	411AC59D	41CE6EAC	40A9F570	4917EA92	00440000		
( 10520)	478C8152	413187C6	427A9D08	BE130803	428D8835	49179E8A	00440000	000060FC	48789525			
( 10560)	49169A2F	4814A2CF	411AC520	41CE6D8A	40A9F478	4917EB9F	41D08A51	478C858E	4131878C	4247AA5F		
( 10600)	BE134947	42814F3A	4517A1B1	00440000	000060FC	00000000	4878975A	4916983F	4814A3AF	411AC48D		
( 10640)	41CE6C68	40A9F386	4517ECAC	41D0B5E0	478C8A5E	413187A5	4247AAE7	BE13043E	4282532A	4917A4DF		

FILE INPUT DATA RECORDS MAX. SIZE PERM ZERO B SHORT UNDEF. #RECS. TOTAL# INPUT RETRIES

4 34 35 13604 0 0 0 0 0 0 0

FILE	RECORD	INPUT	LENGTH	BYTES	MAX. SIZE	PERM	ZERO	B	SHORT	UNDEF.	#RECS.	TOTAL#	INPUT RETRIES
( 0)	2EE40000	00180000	000119A9	0000A9B0	4218D999	42BEAB85	41A39062	00180000	000119AF	0000A9B0			
( 40)	4216A147	42C26E14	41D61E83	00180000	00011986	000C6900	421276AA	42C9FA9A	42147375	00180000			
( 80)	00011986	000C690A	421276AA	42C9FA9A	00000000	001E0000	00011586	00007E54	42126C54	42CA0D03			
( 120)	00011986	00011986	00007F4E	42126C54	42CA0D03	422A0003	421484FE	00180000	00011988	00000000			
( 160)	42116E14	42CB9999	42163456	00180000	00011988	00011988	42115370	42C93A63	42138C10	00180000			
( 200)	00011988	000C7D32	42115370	42C93A63	00000000	0C180000	00011988	00008954	421150CB	42C8F12C			
( 240)	00011988	00011988	0000899E	421150CB	42C8F12C	421150CB	42134A8C	00180000	00011582	0000E484			
( 280)	42113D70	42C7051E	42115A43	00180000	0001198F	0001198F	41C68851	42D080A3	421A71FE	00180000			
( 320)	0001198F	000C41A0	419C0000	42D4F851	421E371A	00180000	0001198E	00004AC4	418FC834	42D50888			
( 360)	41E54ACE	00180000	0001198F	00000000	418FC834	42D50888	00000000	42D57A26	421E85FC	00180000			
( 400)	418E9EAA	42D57A26	00000000	00180000	0001198F	00007E06	418E9EAA	42D57A26	421E85FC	00180000			
( 440)	000119C1	000148A4	417AC4A4	42DC583	42250497	00180000	000119C1	000148AE	417AC4A4	42DC583			
( 480)	000119C1	000119C1	000119C4	416451E8	42E5051E	00000000	00000000	00180000	000119C8	431119E8			
( 520)	419FCA30	42FB1E88	00000000	00180000	000119C9	000C1F68	419BAE14	43102428	00000000	00180000			
( 560)	000119CA	0000FD20	41979A33	43109F5C	00000000	00180000	000119C8	00011238	41473333	431119E8			
( 600)	00000000	00180000	000119C8	00014C00	4143851E	C230E307	00000000	00180000	000119CF	0000A8C0			
( 640)	419E1E47	C21E5666	00000000	00180000	000119D1	000C8CA0	416E3D70	C218D1E8	00000000	00180000			
( 680)	000119D3	00012048	417C028F	C214047A	00000000	0C1E0000	00011507	0000A8C0	419C0000	C1F87AE1			
( 720)	00000000	00180000	000119D9	00007080	41ACA3D7	C1DBAE14	00000000	00180000	000119DB	000049D4			
( 760)	418BC70A	C1C23D70	00000000	00180000	000119D0	00043F8	41CA8F5C	C1B07AE1	00000000	00180000			
( 800)	000119DF	000C3840	41D947AE	C15F851E	41F5C28F	00000000	000115E1	00003F58	41E7AE14	C1907AE1			
( 840)	00000000	00180000	000119E3	00004650	41F5C28F	C18428F5	00000000	00180000	000115E5	00003138			
( 880)	42103AE1	C178A3D7	00000000	00180000	000119E6	00002DB4	4210A9A8	C1742EF6	00000000	00180000			
( 920)	000119E6	000C2DBE	4210A9A8	C1742EF6	C18FEC8E	0C1E0000	000119E0	00009A80	4216C28F	C157D70A			
( 960)	C18A9D82	00180000	000119E5	00004650	4211E9F5	C1670A30	C1807C50	000119E9	000115E9	C16FAE14			
( 1000)	42128D70	C15F851E	C177703A	00180000	000119E0	00002A30	4213851E	C159C28F	C1703E42	00180000			
( 1040)	000119EF	00012750	4214428E	C1528F5C	C167AE7D	00180000	000119F0	00009A80	4216C28F	C157D70A			
( 1080)	C16E8C91	00180000	000119F0	000A8C0	42130F5C	C14051E8	C157A64C	00180000	000119F1	00003840			
( 1120)	42137851	C13FD70A	C1566A4A	00180000	000119F3	00011C20	42144A00	C13C51E8	C15175C2	00180000			
( 1160)	000119F5	00003840	4214F5C2	C13851E8	C14C2752	00180000	000119F7	00003840	421580A3	C133AE14			
( 1200)	4246289F	00180000	000119F5	00009A80	42166885	C13147AE	C1426D5C	00180000	000119FA	00009A80			
( 1240)	4216C7AE	C130F502	C14171DE	00180000	000119F8	00007E90	4217170A	C12FAE14	C13F982A	00180000			
( 1280)	00011A01	00008CA9	42192E14	C1358240	C167AE7D	00180000	00011A03	00008CA0	4219D47A	C12851E8			
( 1320)	C133315B	00180000	00011A03	00180000	4219F7AC	C1281876	C1328724	00180000	00011A03	00011A82			
( 1360)	4219F7AC	C1281876	00000000	00180000	00011A03	00014730	421AC284	C1280E72	00000000	00180000			
( 1400)	00011A03	0001473A	421A0284	C1280672	C1329003	00180000	00011A04	00002B20	421A0FF2	C127F0D4			
( 1440)	C13262D8	00180000	00011A04	00002B2A	421A0FF2	C127F0D4	00000000	00180000	00011A04	000041DC			
( 1480)	421A1594	C127E7A1	00000000	00011A04	000041E6	000041E6	421A1594	C127E7A1	C1324F48	00180000			
( 1520)	00011A04	0001130C	421A495D	C12792AD	C1319A96	00180000	00011A04	000113E6	421A495D	C12792AD			
( 1560)	00000000	00180000	00011A04	000133F8	421A5192	C1278580	00000000	00180000	00011A04	00013402			
( 1600)	421A5192	C1278580	C1317EF5	00180000	00011A04	00013560	421A51E8	C1278580	C13170BF	00180000			
( 1640)	00011A04	00014370	4216C28F	C11FAE14	C130339C	00180000	00011A05	000011D0	4216CD9E	C11F9200			
( 1680)	C130339C	00180000	00011A05	4216CD9E	C11F9200	00000000	00000000	00180000	00011A05	000033CC			
( 1720)	4216D968	C11F428	00000000	00180000	00003306	4216D968	C11F428	C12FCFA8	00180000				
( 1760)	00011A07	00003840	4217C51E	C11D1E88	C128C87F	00180000	00011A09	00005460	42185C28	C11CF5C2			

0415172-012588

FILE	5	RECORD	4	LENGTH	3556BYTES
( 9700 )	00000000	00180000	0001214E	0001310C	41307AE1
( 9700 )	41307AE1	42834000	00000000	00180000	0001214E
( 9800 )	0001214E	41306AB4	428361AC	00000000	0001214E
( 9800 )	0001400A	428361AC	428361AC	00000000	0001214E
( 9800 )	4281B333	0001214F	0001383A	412E8F5C	0001214F
( 9800 )	4287947A	0001214F	0001383A	412E8F5C	0001214F
( 9800 )	00012150	412C5FB5	42871508	00014118	412C5FB5
( 9900 )	00000000	00180000	00000000	00000000	00000000
( 10000 )	412C4138	42870080	00014872	412C4E49	428710C3
( 10040 )	00012152	00000000	00012151	000001AE	000001AE
( 10080 )	00000000	00180000	00000000	00000000	00000000
( 10120 )	41102C0A	428707E4	41102C0A	428707E4	00000000
( 10160 )	00012156	00000000	00012156	00000000	00012156
( 10200 )	412E81CF	00180000	00014370	413F851E	42856307
( 10240 )	4130C28F	42866000	0001215A	0001215A	0001215E
( 10320 )	0001215C	00000000	0001215E	00000000	0001215E
( 10360 )	414F3333	4281070A	0001215E	00000650	414FCA30
( 10400 )	00012160	00000000	00012162	00005460	41440000
( 10440 )	415EAB80	00180000	00012164	4130C28F	00012164
( 10480 )	41309999	42823D70	00012164	00012164	00012164
( 10520 )	00012166	00000000	00000000	00000000	00000000
( 10560 )	414C3A23	00180000	415947AE	4282B851	00000000
( 10600 )	4147C70A	42832666	0001216C	414DEB85	4282CA30
( 10640 )	0001216E	00000000	0001216E	00000000	0001216E
( 10680 )	4137F7F3	00000000	00012172	00000000	00012172
( 10720 )	415B3333	4283F0A3	00012176	00000000	00012176
( 10760 )	0001217A	00000000	00012176	00000000	00012176
( 10800 )	412A3364	00180000	00012176	00000000	00012176
( 10840 )	4174A3D7	4284B5C2	00000000	00000000	00000000
( 10880 )	0001217B	00000000	00000000	00000000	00000000
( 10920 )	411E1F2A	00180000	0001217C	00010B30	0001217C
( 10960 )	418851E8	42841C28	00000000	00000000	00000000
( 11000 )	00012181	00000000	00000000	00000000	00000000
( 11040 )	4110C75C	00180000	00012185	00000000	00012185
( 11080 )	4174F5C2	4285428F	00000000	00000000	00000000
( 11120 )	00012185	00009A80	419828F5	42851C28	00000000
( 11160 )	419828F5	00180000	00012188	000140A0	00012188
( 11200 )	00012188	00000000	00000000	00000000	00000000
( 11240 )	00012188	00014052	41905999	4285067E	00012188
( 11320 )	4185C28F	42866307	00012188	00000000	00012188
( 11360 )	0001218E	00000000	00000000	00000000	00000000
( 11400 )	4124F527	00180000	0001218E	42868AE1	0001218E
( 11440 )	41A147AE	42846E14	0001218E	0001218E	0001218E
( 11480 )	00012194	00000000	00000000	00000000	00000000
( 11520 )	41851E8	00180000	00012199	00000000	00012199
( 11600 )	00012199	00006270	41AF851E	42857851	00012199
( 11640 )	41A147AE	42858000	0001219D	00000000	0001219D
( 11720 )	000121A3	00000000	00000000	00000000	00000000
( 11760 )	409F4879	00180000	000121A3	00000000	000121A3
( 11800 )	4185E885	4281C000	000121A3	00000000	000121A3
( 11840 )	000121A7	00000000	00000000	00000000	00000000
( 11880 )	413AA0A5	00180000	000121A8	00000000	000121A8
( 11920 )	41A28F5C	4283A666	000121B0	00000000	000121B0
( 11960 )	000121B0	00014820	419A3070	42844CCC	000121B0
( 12000 )	414C9EFD	00000000	00000000	00000000	00000000

85085

DUMP OF TAPE SOUT3

INPUT TAPE SCUT3 ON FTO  
DATA INPUT H9 NF=5 FL=5=1=1

FILE 1 RECORD 1 LENGTH 14404BYTES

04/21/73 05/08/86

( 0 )	3844000	0050000	0011097	000B2535	000C0822	452E1BC2	4330FF45	421EA7B6	C12778D2	4113159A
( 40 )	43F4A709	4053F269	4208A353	402803C4	40113055	411AA3C3	479265A0	42D70AF5	C0FECECE	C778524C
( 80 )	C7559AC0	C6285156	42111F75	C2229405	C1203008	42266B34	478F6149	BD151642	42D2C7BE	46B76D6E
( 120 )	C15B3A18	428BA460	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	40082535
( 160 )	000157C	4537210D	432EA3C7	421DAE6A	C121FCA9	4115B3C2	441AAC38	412ADCFA	42C8B35C	4085118D
( 200 )	40129435	4279828C	475269DA	42D7174C	C0FD9D45	C77E4401	C7537765	C6286C32	42112381	C2225206
( 240 )	C1293F7A	42266A7F	478F6180	BD16408D	42D2D19E	46B7E775	C15B2AFD	4288B0E6	00000000	00000000
( 280 )	00000000	00000000	000121A0	00000000	00011097	000023F3	455333ED	433135FC	421DAAE8	
( 320 )	CC42B0F1	41156A85	442A5A1B	411D8638	42C88BE1	4CA184CD	401214CF	4226D55D	47926ED7	42D7248B
( 360 )	C0FE582A	C7783485	C753926D	C6288948	421127EA	C222698B	C1202DFF	4226698B	478F621E	BD174388
( 400 )	42D2D5C2	4688B68A	C15B2110	4288B6E6	00000000	00000000	00000000	00000000	000121A0	00900000
( 440 )	00011097	000B2535	0000333B	453AE01D	4330A6D7	421EA5EE	C157A898	41158E1A	4A1165AC	40FD59C6
( 480 )	42C8515F	405761C8	3FCE5304	41ED2950	47927371	42D73110	C0FEEA66	C7782645	C75382E6	C628A401
( 520 )	421128E9	C2224C2E	C1202CA1	422669206	478E6285	BD18AFFE2	42D2E625	4688A501	C15B1803	4288CACA
( 560 )	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	000B2535	00003F98	4539A6A1
( 600 )	432E78A2	421CC08E	C148958E	411756A5	44A55895	411CC02E	42C5619C	405D7826	402A26EB	4233FE96
( 640 )	47927871	42D73E65	C0FF969A	C77816D4	C753D1AE	C628C0E2	42113040	C2224925	C1202B25	42266841
( 680 )	478E62F3	BD19F7E5	42D2FE06	46B96838	C1580E21	4288D830	00000000	00000000	00000000	00000000
( 720 )	000121A0	00900000	00011097	000B2535	000C4D4F	452EF096	432E35AB	421EC580	C1249E52	4118266F
( 760 )	4411D088	41179017	42C8B579	404D3CC3	40103CC4	418E85DC	47527D37	42D7481F	C11003AF	C7780817
( 800 )	C753EF10	C628D0C5	42113465	C222463F	C1202988	42266785	478F635D	BD1B3102	42D2FAEC	4689E581
( 840 )	C15B04B4	428BE4EB	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	000B2535
( 880 )	000158AC	453B15C7	432E4688	422E2506	C17C37ED	428E0125	4427015C	4137201F	42C8D472	406E4F84
( 920 )	428E50D0	4291C292	47828237	42D75873	C110E073	C777E8AE	C15A00D8	C628E557	4211388C	C222A336
( 960 )	C129283F	422666C0	478263C8	BD1C7050	42D3058D	468A688B	C15AFAD4	428BF25F	00000000	00000000
( 1000 )	00016000	42640000	000121A0	00500000	00011097	000B2535	00006A08	453B6471	432D8FA3	421F30FC
( 1040 )	C17A3928	4119882C	44210606	41199039	42CE72FB	4C7CE6C7	4016868C	422787A2	4792873E	42C765C6
( 1080 )	C1131933	C777E92D	C7542C9B	C6291636	42113D11	C222402C	C12026C1	422665EA	478E6435	BD1DC497
( 1120 )	42D3102D	468AE8EB	C15AF0E8	428BF6C3	00000000	00000000	00000000	00000000	000121A0	00900000
( 1160 )	00011097	000B2535	000077F9	452D07DA	432EC3EC	421E308B	C163E904	4115E0E6	43DA6AA6	40EFA893
( 1200 )	42C8E1D3	40522157	3F8EC9FD	4218E01D	475828C3	42D77284	C130239C	C777DA26	C7544A6E	C6293231
( 1240 )	42114143	C2223D37	C120254D	4226663A	478E64A4	BD1E08E4	42D31A7B	4688B813	C15AE7A7	428C0CBE
( 1280 )	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	000B2535	000086D4	453C29CF
( 1320 )	432E8F38	421D1859	C18392EB	411E35C4	43FE0E11	41165973	42C8A51E	407E01C9	40185EAB	42112085
( 1360 )	4792915C	42D78075	C1102E86	C777CA1F	C7546A31	C6295009	4211458B	C2223A11	C10203C0	4226646C
( 1400 )	478F6516	BD2062F1	42D32578	468BF2AE	C15AD0FF	428C1A94	00000000	00000000	00000000	00000000
( 1440 )	000121A0	00900000	00011097	006B2535	00093388	45261772	432D0C8E	421D1FB4	C1368E81	411AF692
( 1480 )	43A3132A	4111AFB3	42C8601E	403672E1	4011F68D	42133188	479255F3	42D78C68	C1103855	C7778C16
( 1520 )	C75485C5	C62969EE	4211499D	C2223755	C1202268	422663BA	478F6579	BD218F2C	42D32F01	468C6859
( 1560 )	C15AD414	428C2896	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	000B2535
( 1600 )	000CA1F0	452CA260	432B44CC	421A6F28	C14DA00B	4117A83E	4427FB08	411F0DC2	42C9517C	40E78785
( 1640 )	402A4070	425D7330	47929AE9	42D79924	C11042E6	C777ACD7	C754A42C	C629A67C	421140E3	C222384E
( 1680 )	C12020EB	422662F4	478F65E6	BD22006D	42D33986	468CEA1A	C15ACA35	428C33D2	00000000	00000000
( 1720 )	00000000	00000000	000121A0	00900000	00011097	000B2535	0000AFA7	451E0747	432AF942	42201152
( 1760 )	C1E062C3	411C26F0	43C3C885	412C7F36	42C8A344	4CA4E0F9	401A818D	4293480E	47929FC7	42D7A647
( 1800 )	C114D330	C7779FD0	C754C17A	C629A204	42115200	C2223163	C1201E7A	42266235	478E664E	BD2A2283
( 1840 )	42D343AB	468D6738	C15AC0A7	428C4096	00000000	00000000	00000000	00000000	000121A0	00900000
( 1880 )	00011097	000B2535	00000000	00000000	432C9886	41C28344	C18C1866	4118EDA6	4327503B	40A008FC
( 1920 )	42C82C33	401AEDF6	3F8DEF61	411CAE17	4792A51C	42D78431	C1105864	C7778D88	C754E193	C629C02D
( 1960 )	42115682	C2222E30	C1201DE5	42266164	478E66C2	BD258703	42D34EC7	468DE046	C15AB630	428C4E91
( 2000 )	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	000B2535	0000C8F3	452878BE
( 2040 )	432C4579	41B15238	C165C9D5	411901E2	434E6002	411141E1	42684779	4032285D	C1201C8C	422660AA
( 2080 )	4792A9D2	42D7C07C	C110624B	C777F57	C754F0F1	C629DAD4	428C5AEB	00000000	00000000	00000000
( 2120 )	478F6728	BD26C1E9	42D3589A	468E6966	C15AACF2	428C5AEB	00000000	00000000	00000000	00000000
( 2160 )	000121A0	00900000	00011097	000B2535	0000DA51	4540F4E1	432C847A	42123780	C19028DA	41165294
( 2200 )	441F5818	4110A87D	42C8D8C3	405546C8	40120533	424551F6	4792AEF1	42D7C0C8	C1106CFF	C7776AC0
( 2240 )	C7551C9E	C629F7A9	42115ECB	C222284C	C1201AFB	42265FE1	478F6796	BD26199C	42D3633A	468EECC6
( 2280 )	C15AA2E8	428C6847	00000000	00000000	00000000	00000000	000121A0	00900000	00011097	000B2535

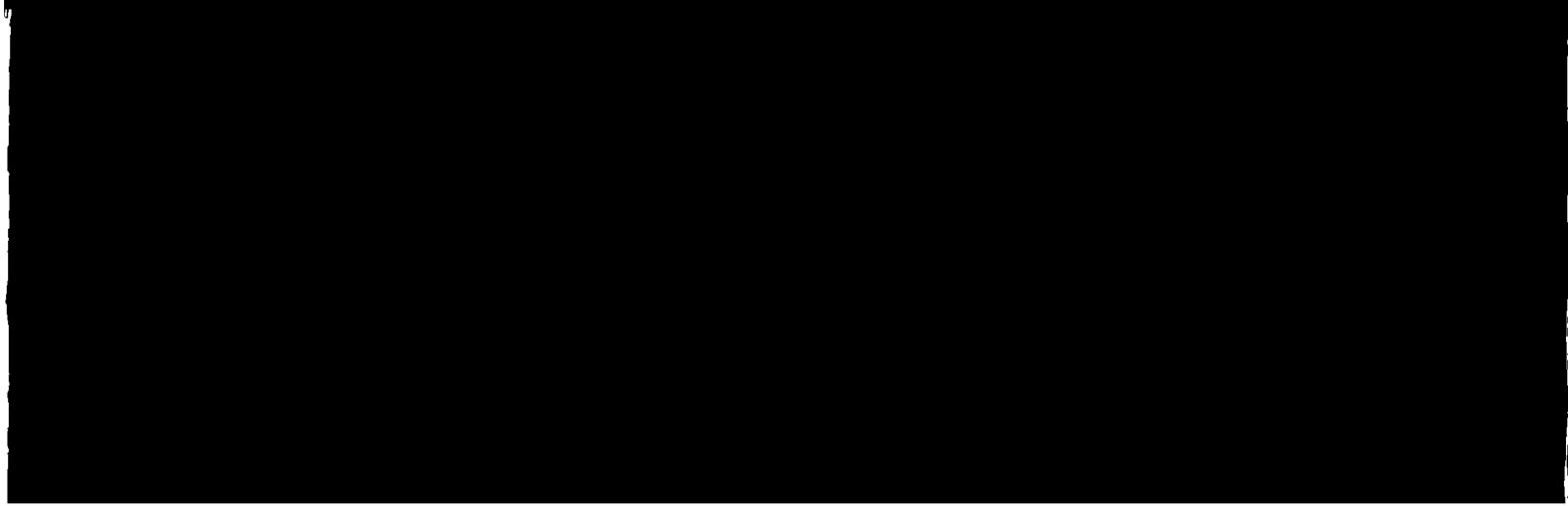
( 12880)	47547249	42C8ED9E	C11382CE	C7725835	C75E9918	C632F181	4212A837	C2212883	C11F5663	42261800
( 12923)	478F89F1	8D58C98D	42D6B83E	46E7C661	C1574983	42918CC2	00000000	00000000	00000000	00000000
( 12960)	000121C0	00900000	0011D9B8	000245E7	4510FC46	431F9384	421EDC18	421EDC18	C153031F	411354A4
( 13000)	4333044D	41143886	42C863CE	405BDEB3	00137B53	424733E3	47947823	C2D8F417	C1138C9F	C772481D
( 13040)	C75E85B3	C6330CC1	4212AF08	C2212588	C11F94AF	42261A2A	478F8A5A	4C9D2239	42D6C26F	46E8429D
( 13080)	C15735E4	42909947	00000000	00000000	00000000	00000000	000121C0	00900000	42C86E2C	00611AE9
( 13120)	0000322A	44CEFD03	431F4A89	421EDAC8	C166E9C0	41129398	43A244C9	411E5CBF	42C86E2C	00611AE9
( 13160)	4C156415	42794F80	47947E06	42DC0693	C113C660	C7723AF6	C75E0254	C6332809	421282D9	C2212260
( 13200)	C11F92F8	42261946	478F8AC2	8D5E78E0	42D6CCA4	46E8BF04	C1577307	4290A5D0	00000000	00000000
( 13240)	00000000	00000000	000121C0	00900000	00011D98	00082539	00003F2C	4518670E	431F380A	421D1549
( 13280)	C175706F	4110F57D	43A375C6	41167460	42C8AC07	40738A62	401172A8	4244828C	47948394	42D01251
( 13320)	C113CF8B	C77228BE	C75EED41	C633A182	4212866E	C2211F64	C11F515A	4226182A	478F8824	8D5E897E
( 13360)	42D6D63F	46E5340A	C1572998	4250B198	00000000	00000000	00000000	00000000	42D61CEC	40832C99
( 13400)	00011D98	00000000	00000000	00000000	42109A78	479489E3	42D1C63A	C17927EA	411767D0	42D61CEC
( 13440)	42C82931	40181211	3FE98C6C	421D9478	431F388C	42D1C63A	C17927EA	C7721A76	C75F08D2	C6335ED5
( 13480)	4212BA8C	C2211C01	C11F8F84	4226177A	478F8B94	43248531	40F058C0	4266E127	46E9B8EA	C1571DF7
( 13520)	00000000	00000000	00000000	00000000	000121C0	000121C0	00011D98	00082539	00005C46	44E88830
( 13560)	431E863A	421D0870	C19F81DF	4116CFAB	43248531	40F058C0	4266E127	404A825F	4011C17F	422888AF
( 13600)	47949003	42D0C295	C113E40C	C7720981	C75F297C	C633781A	42128E73	C2211887	C11F8D8D	4226168D
( 13640)	478F8C03	8DA286C8	42D6E8BC	46EA39DA	C1571280	4290C8F9	00000000	00000000	00000000	00000000
( 13680)	000121C0	00900000	00011D98	00082539	000069C9	4510E8DE	431F826E	421BAP68	C1A86194	411955F2
( 13720)	431A4E4F	40B4D207	42C838FD	403727E6	3FC4751E	41CFCC30	479495CE	42D0C38C	C113ED8F	C771F9DB
( 13760)	C75F496C	C633958F	4212C22A	C221159C	C11F8C0D	422615AD	478F8C66	8DA3D138	42D6F586	46EAB35E
( 13800)	C1570805	4250D836	00000000	00000000	00000000	000121C0	000121C0	00900000	00011C9B	00082539
( 13840)	0000781E	44F5C4AB	431EA3D9	42180CA7	C1D07141	4116721C	43249E0D	4112B381	42C8541B	403A1693
( 13880)	4C1CFDDA	4225931D	479498F9	42DC4581	C113F7A2	C771E909	C75F6308	C633B1FE	4212C619	C2211250
( 13920)	C11F8A42	4226148E	478F8C02	8DA52061	42D7004A	46E83439	C156FCAE	4290E52F	00000000	00000000
( 13960)	00000000	00000000	000121C0	00900000	00000000	00082539	000085A0	4514E804	431CECDC	42182408
( 14000)	C2107863	411B5880	4359C556	40E0862E	42C87FA5	00487E03	40139CC7	421D9C28	4794A1CA	42D051DF
( 14040)	C1149121	C771D92D	C75F7EF7	C6330CA0	4212C90E	C2210F34	C11F8892	422613D0	478F8D38	8DA6759D
( 14080)	42D70A44	46EABDB4	C156F1FE	4250F16A	00000000	00000000	00000000	00000000	000121C0	00900000
( 14120)	00011D98	00082539	000093F5	44FFB690	431E3747	421C1FB4	C214B37A	41123F48	43A5243C	411FC3CE
( 14160)	42687C76	4061E11B	401238A3	425B823D	4794A7F5	42D0CECB	C1140834	C771C85A	C75F9C96	C633E8E0
( 14200)	4212C08C	C2210BE8	C11F86C7	422612EE	478F8DA4	8DA7D1C7	42D714D9	46EC2E5E	C156E6A8	4290FE62
( 14240)	00000000	00000000	00000000	00000000	000121C0	00900000	00011D98	00082539	0000A191	44F13F82
( 14280)	431EA60C	4214A768	C215B981	4110C0DD	433FB102	4114143E	42C8E820	40598820	401E5492	424A59D3
( 14320)	4794ADC6	42D0C680E	C11414C1	C771B85A	C75F88B0	C6340380	C2210806	C2210806	C11F8512	4226120B
( 14360)	47EFEB0A	BDA919AA	42D71EES	46ECA8E0	C156DBDD	42910AB1	00000000	00000000	00000000	00000000
( 14400)	000121C0									

210508

FILE	1	RECORD	1106	LENGTH	2596	BYTES				
( 0)	0A24000	00500000	00015070	006D215C	00004B21	43840B7D	45237609	40ED3A43	421147E1	3EBFC842
( 40)	434FDE19	4122A3C6	40257544	402D0AE7	3F377273	42A25CE7	488973A3	42FBE27B	42109E42	C838BD6C
( 80)	C8A86643	4835005F	413D2497	C1D0161D	4135FF6F	41D0F2ECF	478FFDFA	8D3C9609	42E31F63	48B1AD26
( 120)	42101C24	42AEEDC0	00000000	00000000	00000000	00000000	00015479	00900000	00015070	0000215C
( 160)	00005781	4429E152	43226743	4118D05E7	4210B228	3F78B650	43426488	40990AE8	4038AC53	40209488
( 200)	3E4A8093	41685BDC	48B973A3	42109E42	42109E42	C836D06C	C8A86643	4835005F	413D2497	C1C0161D
( 240)	4133FF6F	41DF2ECF	478FFDFA	8D3C95FF	42E31F63	48B1AD26	42101C24	42AEEDC0	00000000	00000000
( 280)	00000000	42140000	00015479	00900000	00015070	0000215C	00006381	4373CCD5	432310B5	4112F045
( 320)	4210728	3FC2289C	43C58E84	41358366	40745633	4051CAEA	3F48A809	41E2257A	488973A3	42E8E278
( 360)	42109E42	C838BD6C	C8A86643	4835005F	413D2497	C1D0161D	4133FF6F	41DF2ECF	478FFDFA	8D3C95F7
( 400)	42E31F62	48B1AD26	42101C24	42AEEDC0	00000000	00000000	00000000	00000000	00015479	00900000
( 440)	00015070	0000215C	00004A62	44276EF6	43231209	41138174	4210C88C	3F197342	43F73186	4138556A
( 480)	46E3077E	404944DE	3E4A8093	4145F942	48B573A3	42E8E278	42105E42	C838BD6C	C8A86643	4835005F
( 520)	413D2497	C1D0161D	4133FF6F	41DF2ECF	478FFDFA	8D3C95F1	42E31F62	48B1AD26	42101C24	42AEEDC0
( 560)	00000000	00000000	00000000	00000000	00000000	00015479	00900000	0000215C	000AD562	4428E8E3
( 600)	4324F83	4112C21A	4210CE64	3F2011FA	4335F109	40B5789A	401F2EF7	4018349C	3E723F07	4258398C
( 640)	48B973A3	42FBE27B	42109E42	C838BD6C	C8A86643	4835005F	413D2497	C1D0161D	4133FF6F	41DF2ECF
( 680)	478FFDFA	8D3C95EC	42E31F62	48B1AD26	42101C24	42AEEDC0	00000000	00000000	00000000	42140000
( 720)	00015479	00900000	00015070	0000215C	0000B602	4429C448	43231F6C	4114F28C	421015E7	3F195C47
( 760)	4326180C	40A5E757	401167FF	3FF3C3C7	3DEA1196	4CAC96C7	488973A3	42E8E278	42109E42	C838BD6C
( 800)	C8A86643	4835005F	413D2497	C1D0161D	4133FF6F	41DF2ECF	478FFDFA	8D3C95E8	42E31F62	48B1AD26
( 840)	42101C24	42AEEDC0	00000000	00000000	00000000	42140000	00015479	00900000	00015070	0000215C
( 880)	0000C8C2	4434D861	43222445	4115A730	42105D66	3F52E375	432D0C24	403B8A7A	401B39C5	3FE46E44
( 920)	3E5D7DA3	41151A21	488973A3	42FBE278	42109E42	C838BD6C	C8A86643	4835005F	413D2497	C1C0161D
( 960)	4133FF6F	41DF2ECF	478FFDFA	8D3C95E4	42E31F62	48B1AD26	42101C24	42AEEDC0	00000000	00000000



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62



FILE	INPUT RECS.	DATA RECORDS	MAX. SIZE	READ ERROR	SUMMARY	SHCRT	UNDEF.	#RECS.	TOTAL#
( 4760 )	00015070	0000215C	00000000	4429E152	43226742	411805E7	4210B228	3F78B650	00000000
( 4800 )	00000000	00000000	00000000	40E00000	48E573A2	42FBE27A	42105E42	C818BD6C	00000000
( 4840 )	41302496	C1D0161C	4133FF6E	410F2ECE	478FFDFA	BD3C95FE	42E31F62	48B1AD26	42101C24
( 4880 )	4618C0D4	35C4772E	38A43964	3F10D681	000154CF	00000000	00015070	00000000	4373CCD5
( 4920 )	432310B5	4210D728	3FC2289C	00000000	00000000	00000000	00000000	00000000	41100000
( 4560 )	48B573A3	42FBE27B	42109E42	C838BD6C	C8A86643	48350D5E	413D2457	C1D0161D	4133FF6E
( 5000 )	478FFDFA	BD3C95F7	42E31F62	48B1AD26	42101C24	42AE2C0D	46289486	35369C2E	39112683
( 5040 )	000154CF	00900000	00015070	0000215C	00000000	44276EF6	43231209	4113A174	4210C88C
( 5080 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	3E197342
( 5120 )	C8A86643	48350D5F	413D2497	C1D0161D	4133FF6E	41DF2EFC	478E9EFA	BD3C95F1	42E31F62
( 5160 )	42101C24	42AE2C0D	45551EC9	3527006E	3823FAD2	3E3C2828	00000000	00000000	48B1AD26
( 5200 )	00000000	00000000	432340BE	4113D253	42101C22	00000000	00000000	00000000	00000000
( 5240 )	00000000	411C0000	48B573A2	42FBE27A	42109E42	C838BD6C	C8A86642	48350D5E	413D2496
( 5280 )	4133FF6E	41DF2EFC	478E9EFA	BD3C95EA	42E31F62	48B1AD26	42101C24	42AE2C0D	C1D0161C
( 5320 )	382908FE	3E44FE40	000154CF	00015070	0000215C	00000000	00000000	4434D860	43222444
( 5360 )	421050F6	3F52E374	00000000	00000000	00015070	C1D0161C	4133FF6E	41DF2EFC	4115A730
( 5400 )	42109E42	C838BD6C	C8A86642	48350D5E	413D2496	4133FF6E	41DF2EFC	478FFDFA	BD3C95E4
( 5440 )	42E31F62	48B1AD26	42101C24	42AE2C0D	45551EC9	3527006E	3823FAD2	3E3C2828	00015070
( 5480 )	00015070	0000215C	00000016	43AD02C9	4228C437	8FF31C87	42111CA2	3FE28276	00000000
( 5520 )	00000000	00000000	00000000	41100000	48B582E5	42E3E5C8	42105E3C	C838BD62	CA8A7769
( 5560 )	413D2604	C1D011AB	4133FE0B	41DF3B22	4790D69F	BD60CC4E	42E41724	48B1AC23	42101C88
( 5600 )	462EA4A8	355F2E49	39133C08	3F1FFEC9	000154CF	00000000	00000000	00000000	42AFE613
( 5640 )	4321F98C	4118F689	42109594	3F4D7404	00000000	00000000	00015070	00000000	447E98C2
( 5680 )	48B582E4	42FBE5CA	42109E3C	C838BD62	C8A87768	4A3511A6	413D2604	C1D011AA	4133FE0A
( 5720 )	4790D69E	BD60CB2E	42E4171C	48B1AC22	42101C88	42AE2C0D	45F07FA	3617D34D	3866CB54
( 5760 )	000154CF	00900000	00015071	0000215D	00000000	44A6C94A	4210E07A	411AD22D	4210C6AB
( 5800 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	3E701839
( 5840 )	C8A87768	483511A7	413D2604	C1D011AB	4133FE0B	41DF3B21	4790D69F	BD60CAE6	42E4171B
( 5880 )	42101C88	42AE2C0D	4616ADD9	362D6A31	38947030	3EF03B70	000154CF	00000000	0000215D
( 5920 )	00000000	448C1576	4321CC70	4115018C	4210D31F	3E6797C7	00000000	00000000	00000000
( 5960 )	00000000	411C0000	48B982E4	42FBE5C8	42109E3C	C838BD62	C8A87768	483511A7	413D2604
( 6000 )	4133FE0B	41DF3B21	4790D69F	BD60CAE7	42E4171A	48B1AC23	42101C88	42AF6613	4614E8D0
( 6040 )	388868B5	3E0C7028	000154CF	00900000	00015071	00000000	00000000	00000000	432377C0
( 6080 )	42115512	3F381835	00000000	00000000	00000000	00000000	00000000	00000000	4123F29C
( 6120 )	42109E3C	C838BD62	C8A87768	483511A7	4133FE0B	C1D011AB	4133FE0B	41DF3B21	4790D69F
( 6160 )	42E4171A	48B1AC23	42101C88	42AE2C0D	42AE2C0D	45551EC9	3527006E	3823FAD2	3E3C2828
( 6200 )	00015071	0000215D	00000012	44472FF8	4322C1C7	41128A21	42118A36	3FFFA702	00000000
( 6240 )	00000000	00000000	00000000	00000000	00000000	48B582E4	42E3E5C8	42105E3C	C838BD62
( 6280 )	413D2604	C1D011AB	4133FE0B	41DF3B21	4790D69F	BD60CAE7	42E4171A	48B1AC23	42101C88
( 6320 )	4634F67E	362C342E	39162FDB	3E24C574	000154CF	00900000	00015071	0000215D	42AE2C0D
( 6360 )	4322D030	41144742	42118B48	3F560781	00000000	00000000	00000000	00000000	41100000
( 6400 )	48B582E4	42FBE5C8	42109E3C	C838BD62	C8A87768	483511A7	413D2604	C1D011AB	4133FE0B
( 6440 )	4790D69F	BD60CAE7	42E4171A	48B1AC23	42AE2C0D	45551EC9	3527006E	3823FAD2	3E3C2828
( 6480 )	000154CF	00900000	00015071	0000215D	00000000	00000000	00000000	00000000	41100000
( 6520 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	41100000
( 6560 )	C8A87768	483511A7	413D2604	C1D011AB	4133FE0B	41DF3B21	4790D69F	BD60CAE7	42E4171B
( 6600 )	42101C88	42AE2C0D	4614DC3F	361312AE	388C581D	3EE97898	000154CF	00000000	48B1AC23

FILE	INPUT RECS.	DATA RECORDS	MAX. SIZE	READ ERROR	SUMMARY	SHCRT	UNDEF.	#RECS.	TOTAL#
FILE	3	RECORD	1	LENGTH	14404 BYTES				
( 0 )	38440000	00900000	00011D97	00082535	00000000	4533DDE0	432D8JF7	421813C0	C158AAAE
( 40 )	4485C176	421F5C8B	416172C5	41321C5A	4030A7CA	42168000	47925E00	42D7A0C1	C11048C1
( 80 )	C754B4F1	C629965A	4211502D	C2223284	C12D1AFB	42266276	478F6618	BD238DD8	42D33E49
( 120 )	C15AC440	428C3B22	47632F78	382DED9D	3A355FDB	40762364	000154CF	00900000	00011098
( 160 )	00000000	4532AC6D	432C334C	42186F15	C158E6FC	41208E55	44DA7767	421AAE51	41914048
( 200 )	4188B017	42108000	47931810	42D8D5EC	C11140BE	C7763559	C7577D7F	C62C350F	42118396
( 240 )	C11FFB5E	42264FC2	478F702D	BD43EC44	42D436EA	46C91B52	C159D6E1	428D71A8	478A7E34
( 280 )	3A48696F	40982B47	000154CF	00900000	00011D99	000E2537	00000000	452AB4F1	432A9D91
( 320 )	C163A78C	4118E04C	44A96DE2	422GD018	417578FE	4163184D	407AEC39	4215D0C0	4793562C
( 360 )	C1123112	C774C590	C75A42C	C62EC563	42121336	C221A222	C11FD6BE	42263C79	478F79F0
( 400 )	42D52A24	46D4C518	C158E583	428EA0DE	47656080	3829F226	3A345113	4068B508	000154CF
( 440 )	C6C11D9A	000B2538	00000000	451F9022	4324C7AF	421C4334	C14D3C09	4115CEA6	44DDAE99
( 480 )	4125DB29	413F9D15	408CD201	42180000	475422C3	42DE4115	C1132B98	C7733788	C75D0D58

04/21/73 - 04/17/86

( 1370 ) 44547C7C 421A4A84 418A5B4E 416C9734 40ECA481 42168000 47FD1355 4311FE39 C130E0C8 474C3ACE  
 ( 1370 ) C7E7F199 4219DAD1 C18D02F1 C0D35A00 421854CE 4790E88E 8D25A205 4312E6A9 4776E099  
 ( 1380 ) 40D12A5B 42D44760 475E8F40 3816E87E 3A1E05E3 4025CA6C 000154CF 00900000 000110F7 000B2666  
 ( 1380 ) 00C00000 44EF09BB 431A40DE C15A2638 C1658E5D 41A9E423 4449017A 41A9E423 4159642B 41861F48  
 ( 1380 ) 405FFE91 42168000 431204E9 C130DDC2 41C9E0D2 474E67E9 47F1ADF4 C6D88A88 4219CDEA C18A7DF3  
 ( 1390 ) C0D2182D 42183886 4790E500 3C15E2CC 4312E64D 477902FB 40DC8CCC 42D8A199 4747A6AA 38112347  
 ( 1390 ) 3A16AE42 401C6BF5 00C154CF 00C11DF8 000B2667 00000000 44E030E7 4318340B C15D081D  
 ( 1400 ) C150A1F8 412183B5 4446F435 41D79E8A 41E2E3F5 4194F136 411C8311 42150000 479EAEAA 43120AER  
 ( 1400 ) C130DA76 475060CD C7F256C0 C6D9B46D 4219C20F C1883B99 C0D01118 421B24FF 4790E194 3D27CDE3  
 ( 1408 ) 4313047F 477AE980 40E72092 42D5110C 4757C153 38166106 3A1D1179 40262189 000154CF 00900000  
 ( 14120 ) 00C11DF9 000B2668 00C00000 4529C0BF 432E0EFA C1487E64 C1778D51 4139F32C 4518F0B2 42368547  
 ( 14160 ) 41E55E88  
 ( 14200 ) 421984F0 C185C9A8 C0C0DE1F 42180C30 4790DDA1 3D52CC02 43131410 477D048C 40F262BC 4205789E  
 ( 14240 ) 4782EF46 3858714A 3A4688C6 406FE199 000154CF 000110DE 000B2669 00000000 452D4893  
 ( 14280 ) 432888C6 C152D7AD C15D0621 41161035 45152A9F 422DE6F6 41741030 418F9C68 41118F67 42150000  
 ( 14320 ) 4812580 C13001B2 47549E8D C7F3B761 C6DED3F3 4219A818 C1837367 C0CRC2E3 421AE447  
 ( 14360 ) 4790D999 3D7AC77F 43132323 477F13A1 40FD2979 42D508C3 47516A07 383202C8 3A263160 40475066  
 ( 14400 ) 04E154CF

FILE 3 RECORD 31 LENGTH 288 BYTES

( 0 ) 08440000 00900000 00015058 000D2101 00000000 4491B72E 43225DF4 41295A39 4210FA86 3FD1FF54  
 ( 40 ) 4466C842 417AC0E8 408D71A9 4046ADE2 3E851CE5 41580000 4888336E 42E89C62 42109EC0 C839271A  
 ( 80 ) C846FDE0 4834B348 413D0640 C1D0740B 41341CDA 41DFA8E0 478F34A5 8DDCFE82 42CEB2E2 48B23FA0  
 ( 120 ) 42113DA 42AE9DA0 462B4A10 36389971 35120C0A 3E1DCAE6 000154CF 00900000 000154CF 000D2102  
 ( 160 ) 00000000 44218C46 42109F57 42100B51 3F56E326 00000000 00000000 00000000 00000000 00000000  
 ( 200 ) 00000000 41100000 488851E1 42EBA325 48391D10 C8A7203C 483A88E2 413D092F C1D06813  
 ( 240 ) 41341ACC 41DF831D 478F4887 8DD290C7 42C0A76D 48B22837 421014A6 42AEA449 46115FC4 357CF2F8  
 ( 280 ) 387766CF 3E83C6C8 000154CF 0001505D 0001505D 000D2103 4472A5F0 432056D4 4122EEF1  
 ( 320 ) 42109F9F 47C2876E 447C6DE5 4218E9AD 40484492 40700000 3E25C2C1 41180000 48B851EA 42FBA320  
 ( 360 ) 42109E86 C8391D10 C8A7203C 483A88E2 41341ACC 41DE8A51 478E48A6 8DD290D5  
 ( 400 ) 42D1A760 48822835 421C14A6 42AEA440 457C0D6F 35807C20 3830CA61 3E4B79EA 000154CF 00900000  
 ( 440 ) 0001505E 000D2104 00000000 4440CDA0 432A627A 48BEFF7 421A4E8C 3E3A3528 43F7D88D 412D8768  
 ( 480 ) 411E7576 40FC14C3 3EADC06A 41580000 48B866AE 42FBA7AB 42109EAE C8391631 C8A737A2 4834C18A  
 ( 520 ) 413D0828 C1D065E8 41341820 41DF6788 478E55F1 BC8707A5 42D1EC40 48B21957 42101531 42AEA8C5  
 ( 560 ) 45A65F40 359FF954 3842FC9A 000154CF 000154CF 00C00000 0002105 00000000 44C2422C  
 ( 600 ) 43211A5A C1181A33 4212C962 3E4AEFAC 448BE5E8 418C18EA 4120785F 4128A7C0 3E1F91A2 41680000  
 ( 640 ) 48887288 42FBA451 42109E99 8C391236 C8A7452C 4834C18A 413D0C4E C1D06158 413416FD 41DF5864  
 ( 680 ) 478F50B3 8DA15929 42D2C1A7 48B21111 42101531 42AEA8C5 45E8E29D 362B2E13 3862F7AE 3E98D078  
 ( 720 ) 000154CF 00900000 00015060 000D2106 00000000 445613FB 4320F865 411DC96E 4214F684 3F3169F1  
 ( 760 ) 44264CAE 41627179 41196726 41191FC5 3E108462 41780000 488881A4 42E8AD95 42109EAE C8390D48  
 ( 800 ) C8A755F9 4834C951 413D0DB8 C1D05CF5 4134159D 41DF4C8E 478F6751 8D884E08 42038633 48820744  
 ( 840 ) 42115E5 42AEA8C5 4588740 35C071F9 381D7A46 3E6073A8 000154CF 00900000 00015061 000D2107  
 ( 880 ) 00000000 44AD087 4320C728 C116408E 42141205 3F389016 46D4F09 417699F3 4138CA51 411E3590  
 ( 920 ) 3F142E76 41480000 48888E83 42FBA080 42109E9F C83908E5 C8A764E3 483ACD0C 413D0E00 C1D05911  
 ( 960 ) 4134146A 41DF4AF1 478F6FD1 8D5F1A51 42C48E71 48B1FE5E 4210163C 42AEB180 45B1575C 361AE697  
 ( 1000 ) 384647F5 3E6E35A0 000154CF 000154CF 00015065 000D2108 442060D81 4325A6C5 40EC8C2D  
 ( 1040 ) 4210A538 3F7275E0 439226605 418FD827 4114AC4A 40F44B49 3F5371C2 41380000 4888D03B 42F8BEC0  
 ( 1080 ) 4219E86 C8A7AEED 4834DF70 413D1538 C1D045DB 41340E66 41DE5E60 478E99C0 3D487788  
 ( 1120 ) 4208BA6D 48B1DB76 421017EF 42AEBF92 4619B32D 358E494C 38BA9D20 3F14F380 414F380 000154CF 00900000  
 ( 1160 ) 00015066 000D210C 00000000 442A21E6 432A875C 41147550 421008C6 3E58E2AD 4416002C  
 ( 1200 ) 4054ED70 402A90B3 3587C060 388F975 3EFC87F2 00C154CF 00015067 00002100 00000000 44200000  
 ( 1240 ) 413C168E C1D04125 41340CEC 41DEA08A 478FA3F8 3D63C4A2 4209FE1D 48B1D42A 42101859 42AEC305  
 ( 1280 ) 4614312F 45E87C06 402A90B3 388F975 3EFC87F2 00C154CF 00015067 00002100 00000000 44200000  
 ( 1320 ) 4324049C 40C53D80 42106558 41882E3 418182E3 418182E3 403AD4E5 405CC3C 3E10C982 41200000  
 ( 1360 ) 48B8E30 42F8C560 42109E79 C838E97C C8A7D028 4834E70C 413D180E C1D03D18 41340BA6 41DF9500  
 ( 1400 ) 478FACE8 3D740BAF 42DAAC38 48E1CE48 421C1886 42AEC610 457D6396 355039FF 383693E9 3E5DFEFA  
 ( 1440 ) 000154CF 00900000 00015068 000D210E 00000000 441AF300 43246093 4114EED8 41FFAD53 3F7853E0  
 ( 1480 ) 43EAAAD6 417F7509 41187903 40449C29 3E7214F3 41280000 4888F9AD 42E8C7E6 42109E7A 4838F586  
 ( 1520 ) C8A7D006 4834E814 413D1922 C1D039C0 41340A9A 41DF8660 478F8426 3D7C3FC 420B5DAC 4881C9C0  
 ( 1560 ) 421190C 42AEC086 461ABFE4 3582972C 38B8E40 3F145D44 000154CF 00900000 00015069 000D2155  
 ( 1600 ) 00000000 442A1360 432303C0 41118FE4 41FF556C 4185B92C 4430F74F 416FDEC 40D3FBA0 4038A751  
 ( 1640 ) 3F324830 41400000 48B90C80 42F8CC10 42109E6C C838DF6A C8A7F270 4834E070 413D1AEF C1D03424  
 ( 1680 ) 413408D8 41DF6448 478FC020 3D78838C 42DC9468 48B1C300 4210157F 42AEC6A0 4612A101 35632988  
 ( 1720 ) 38617D48 3EDE9890 C0C154CF 00015060 00000000 000D2156 00000000 444ABA34 43245A87 41210D68  
 ( 1760 ) 41F869A5 3F51F68A 00000000 00000000 00000000 00000000 00000000 41100000 48B91820 42F8CE96  
 ( 1800 ) 42109E65 C8A7FF5C 4834F3A8 413D1C02 C1D030D8 413407CC 41DF4F7E 478FC744 3D75790C



( 1180)	47910CEB	C1309BAC	43117E64	30C1C880	4311DA39	4756FCE8	00440000	000B2654	04CF6260	47286150
( 1190)	C7E30276	C6C3C873	421A8F76	C18A7C5	C0FCB2A	47E6E5C2	421D08BF	47910C03	C130A707	43118686
( 1196)	30B7D420	4311E979	47589D2E	00440000	000B2655	04CF6260	472A5135	C7E3F6DA	C6C513D1	421A868C
( 1200)	C1B7D938	C0FA0761	47E83B38	421CED0A	47910AF2	C130B156	43118E90	3DA658C0	4311E8BA	475A436A
( 1204)	00440000	000B2656	04CF6260	02C005A	C7E4E73D	C6C65888	421A7D54	C1B4D4D8	COF76ACA	47E990E7
( 1208)	421C0184	4751098B	C130BAA0	43119653	3D8E72D0	431207F8	4758FE52	00440000	000B2657	04CF6260
( 1212)	47E2EEBA	C7E5D3AC	C6C7A032	421A73CF	C1B0A82	COF4D554	47EAE6C7	421C862A	4791085E	C130C2F0
( 1216)	43119E00	3D715E20	4312173C	475DA184	00440000	000B2658	04CF6260	47311C4E	C7E68C34	C6C8E149
( 1220)	421AGAO2	C1AEAA13	COF246F0	47E3C0D2	421C9AFA	479106DF	C130CA48	4311A556	3D50914C	43122670
( 1224)	475E5988	00440000	000B2659	04CF6260	47334910	C7E7A0E3	C5CA1E06	421A5FEF	C1AC0365	C0E9E8E8
( 1228)	47ED9302	421C7FF1	47910530	C130D08A	4311AD17	3D2D9C40	4312335E	476117A7	00440000	000B265A
( 1232)	04CE6260	473574FB	C7E881C5	C6C85973	421A5559	C1A92661	COFD33E1A	47FFEF9A	421C6511	4791037B
( 1236)	C130D645	4311B482	3CA258FF	431244FF	4762DB76	00440000	000B265B	04CF6260	4737A009	C7E95EE7
( 1240)	C6C9097	421A4804	C1A652DB	COEAC585	47F03EB5	421C4A5A	47910198	C130DAE2	43118BDF	BD18219F
( 1244)	43125441	4764A521	00440000	000B265C	04CF6260	4739CA36	C7E4A856	C6C047C	421A4031	C1A38883
( 1248)	CCE8528C	47F1962D	475CF9F5	421C2FCF	43120DC8	4311C319	BD378DC0	431263B3	476674A5	00440000
( 1252)	000B265D	04CF6260	473BF37C	C7E80E1D	C6CE52C	421A3525	C1A0C7C8	COE5E681	47F2ECB3	421C1574
( 1256)	4757FD71	C130E1CF	4311CA46	BD5284E0	431272C6	476849FF	00440000	000B265F	04CF6260	473F18D7
( 1260)	C7E8E049	C6D022AF	4311A29E	C19E0FF8	COE3814E	47F4433F	4218FB4C	4790FB2D	C130E40D	4311D15E
( 1264)	BD67910C	43128209	476A2528	00440000	000B265F	04CF6260	474A4341	C7ECAF55	C6D140DD	421A1E67
( 1268)	C1986122	COE12282	47F599C0	421BE15F	4790F8C8	C130E588	43110E63	BC757140	4312514D	476C061D
( 1272)	00440000	000B2660	04CF6260	47A26988	C7ED79FF	C6D2744F	421A12BA	C1988B26	COEFC43C	47E6F058
( 1276)	4218C7AE	4790F63F	C130E646	43110F54	BD7B2AA0	4312A092	476DE0DA	00440000	000B2661	04CF6260
( 1280)	47A48F36	C7EE419E	C6D3987E	421A06DD	C1561DE2	C0C78A68	47E8A60C	421BAE3D	4790E390	C130E64E
( 1284)	4311E632	BD781800	4312AFD7	476FD959	00440000	000B2662	04CF6260	47A6B388	C7E6F05D2	C6D489A4
( 1288)	4219FAD2	C1938935	COA2CF6	47F99D52	421B9508	4790F088	C130E5A6	4311E0ED	BD6C09A0	43128E1F
( 1292)	4771C897	00440000	000B2663	04CF6260	4748D73A	C7EFC6A5	C6D507C6	4219EE98	C190FD01	COE7E7D2
( 1296)	47EAF387	421B7C14	4791EDB1	C130E452	4311E3B6	BD5739A0	4312CE65	4773C32E	00440000	000B2664
( 1300)	04CF6260	474AF989	C7F08421	C606F2EF	4219E239	C18E7924	COE5A8E9	47FCA405	421B6350	4790EA90
( 1304)	C130E238	4311E45D	BD3A76C0	4312DDAF	4775C139	00440000	000B2665	04CF6260	47AD1831	C7E13E52
( 1308)	C6D80825	4219D580	C188FD80	COE37028	47FDA03A	42184AB4	4790E734	C130DFBF	431200F1	BD171D20
( 1312)	4312E0CF	4777C891	00440000	000B2666	04CF6260	47A7E266	47A7E266	C6D92072	4219C500	C18989F5
( 1316)	COE13083	477EFC60	421B3233	4790E3A6	C130DC8A	43120774	C010E05F	4312FC43	4779C08D	00440000
( 1320)	000B2667	04CF6260	47515B00	C7E2A8FC	C6DA32DD	42198C2D	C1871E65	COE10E1	481004C4	421B19C6
( 1324)	4757DFE2	C130D88F	43120DE6	3D3852A0	4313088F	4778DC26	00440000	000B2668	04CF6260	47537951
( 1328)	C7E35988	C6DB425E	4219AF36	C1848AB0	COE6A31	48101A21	421B016E	4790DBE8	C130DA62	431214A7
( 1332)	30657A80	43131ADC	477DF951	00440000	000B2669	4795968F	C7A066F8	C6DC4F2D	4219A21F	
( 1336)	C1E25E8A	COEAC962	48102F78	421A5934	4758D785	C130CF75	43121A96	3D8CC8B8	43132A2A	47800A02
( 1340)	00440000	000B266A	04CF6260	47578288	C7F4B14E	C6D05922	421994E9	C1800A64	COE8AE60	481044D2
( 1344)	421AD128	4790D3AB	C130CA08	431220D5	3DAEE00	C1333978	4782292C	00440000	000B266B	04CF6260
( 1348)	475E60C9	C7F55896	C6DE6054	42198796	C17DBD91	COE69918	48105A26	421A8954	4790CEAB	C130C413
( 1352)	43122704	3DCA04A0	431348C8	47844DBF	00440000	000E2681	04CF6260	4758E7BF	C7E5ECDC	C6DE6ACA
( 1356)	42197A27	C17B7824	COE48981	48106F77	421A1A1C	4790C9D6	C1308D9F	43122D23	3D0CCC80	43135818
( 1360)	47867AD2									

FILE 4 RECORD 36 LENGTH 6940BYTES

( 0)	181C0003	00440000	000D4A6E	00000000	C8E1218	C8C85068	483D88D4	413F382F	C1C81FF6	41318978
( 40)	48D26AC7	41D78026	478E10C8	42107D9C	43101C29	3D566C3F	421C00E8	480E0792	00440000	000D4A6E
( 80)	00000000	C8E0CE3	C8C860E8	483D8FE9	413F38D8	C1C81CAE	41318877	48D97A41	41D78F1D	478DF7AA
( 120)	4217D86	43101C4F	3D77E5BF	4210D8D0	48DF3248	00440000	000D4A70	00000000	C8E207AD	C8C87165
( 160)	48D0C3FE	C1C81966	41318776	48D5898A	41D7D424	48D0E08C	42107D70	43101C76	3D94C28F	
( 200)	421E08B5	48DF5C96	00440000	000D4A71	00000000	C8E0E278	C8C881E2	483DCC813	413E3A33	C1C8161E
( 240)	41318675	48D99934	41D7E465	478DE370	421C7D5A	43101C9C	3DAB2F5F	421F0A00	48D98672	00440000
( 280)	000D4A72	COE00000	C82DEF42	C8C8525E	483DCC27	413E3ADE	C1C812D8	41118575	48D98A8E	41D7E005
( 320)	4780D956	42107D44	43101CC3	3D89A31F	4220A0E	48DFAFDD	00440000	000D4A73	00000000	C82DF80C
( 360)	C8E8A2DA	483D003C	413F3889	C1C80F91	41318474	48D98828	41D803AC	478DCE41	42107D2E	43101CE9
( 400)	3D8E039F	42210960	48DF08D4	00440000	000D4A74	00000000	C82DF206	C8C8B356	483D0450	413F3C33
( 440)	C1C80C4C	41318374	48D9C7A2	41D7E6C	47E0C535	421C7D18	3D8ABE3F	422208EA	48E0D157	
( 480)	00440000	000D4A75	00000000	C820EDA0	C8C8C302	483D0865	413F3CDE	C1C80906	41318274	48D9D71C
( 520)	41D7E0B3	478D8B34	42107D02	43101D36	3DACC03F	42230885	48E02962	00440000	000D4A76	00000000
( 560)	C8E2E86A	C8C8D44D	483D0C75	413F3D88	C1C805C2	41318174	48D9E696	41D7D242	478D8142	42107CEC
( 600)	4311D5D	3D96009F	4224083D	48E050F4	00440000	000D4A77	00000000	C82DF334	C8C8E4C8	483DFE8D
( 640)	413F3E32	C1C8027E	00440000	000D4A7C	48D9F610	41D7B524	478DA765	42107C06	43101D83	3D775F1F
( 680)	48E1780C	00440000	000D4A80	COE00000	C82D0DE	C8C8E543	483DCEA1	413E3EDC	C1C7E73A	41317E74
( 720)	48DA058B	41D79C05	478D9D9E	42107CC0	43101DA9	3D52A8FF	42260800	48E09E0A	00440000	000D4A8E
( 760)	00000000	C82D0D8C	C8CC058D	483D5885	413F3F85	C1C7FBF7	41317E75	48DA1505	41D78C62	478D93F3

FILE	RECORD	INPUT	RECS.	MAX. SIZE	DATA RECORDS	PERM	READ ERROR	SUMMARY	SHORT	UNDEF.	#RECS.	TOTAL#	INPUT RETRIES
( 6080 )	413F7C67	C1C70351	4131325C	48DECCFE	41071209	478C5E80	4210758D	4310293F	3CAC13FF	42761EE2			
( 6120 )	48E55D69	00440000	00006DF8	00000000	C82C3C6F	C8D11B48	483F29E6	43F707FF	C1C70035	41313168			
( 6160 )	48DED07D	41D6F1D3	478C6159	421075A6	43102963	BCFD41FF	4277239D	48E55550	00440000	00006DF9			
( 6200 )	00C10000	C82C3735	C8D12880	483F20F3	413F7197	C1C6F01A	41313C74	48DEE8FC	41D6CE15	478C6450			
( 6240 )	421758F	431C2938	8D31A00F	4278284A	48E54C88	00440000	00006DFA	00000000	C82C31FB	478C13915			
( 6280 )	483F3201	413F722E	C1C6F9FF	41312F80	48DEF87B	41D6B12A	478C6768	42107577	431029AD	8D5868BF			
( 6320 )	42792CE7	48E543A3	00440000	00006DFB	00000000	C82C2CC0	C8D1A97A	483F360E	413F72C6	C1C6F6E4			
( 6360 )	41312E8D	8DDF0AFA	41D6A1C2	478C6AA1	42107560	431029D1	B081AAFF	427A3174	48E53A12	00440000			
( 6400 )	00006DFC	00000000	C82C2786	C8D159DF	483F3A1C	413F735D	C1C6F3CB	478DF1A75	41C6A0DC				
( 6440 )	478C6DFF	42107549	431029F6	8DAAACAD	427835EF	48E53008	00440000	00006DFD	00000000	C82C224B			
( 6480 )	C8D16A44	483F3E29	413F73F4	C1C6F0B2	41312CA6	48D029F8	41D6A803	478C7184	42107531	43102A1A			
( 6520 )	8D01697F	427C3A57	48E52587	00440000	00006DFE	00C0C000	C82C1D11	C8D17AA8	483F4236	413F748C			
( 6560 )	C1C6E099	41312882	48DF3977	41D6BAD1	478C7533	4210751A	43102A3F	B0F37D7F	427D3EAC	48E51A91			
( 6600 )	00440000	00006DFE	00000000	C82C17D6	C8D1880C	483F4643	413F7523	C1C6E481	41312ABF	48DF48F6			
( 6640 )	41C6C823	478C790E	42107503	43102A63	BE10F8F8	427E42E0	48E506F7	00440000	00006E0C	00000000			
( 6680 )	C82C129C	C8D19870	483F4A50	413F758A	48DF6769	4131292C	48DF5876	41C6D813	478C7D1E	421074EB			
( 6720 )	413F2A88	BE123FEF	427F471B	48E5034D	00440000	00006E01	00000000	C82C0061	C8D1ABD3	483F4E5D			
( 6760 )	413F7650	C1C6E452	413128D9	48DF67F5	41D6DF1C	478C8152	421074D4	43102AAC	BE130803	42804835			
( 6800 )	48E47050	00440000	00006E02	00000000	C82C0826	C8D18C37	483F526A	413F76F7	C1C6E13C	413127E6			
( 6840 )	48DF7774	41D6DF0C	478C858E	421074BD	43102AD1	BE134947	42814F3A	48E4E4AF	00440000	00006E03			
( 6880 )	00000000	C82C02EC	C8D1CC9A	483F5677	413F777E	C1C6DE26	413126F3	48DF86F4	41D6D7D8	478C8A5E			
( 6920 )	42174A5	43102AF6	BE13043E	4282532A	48E4DD2F								

FILE INPUT DATA RECORDS MAX. SIZE DATA RECORDS PERM READ ERROR SUMMARY SHORT UNDEF. #RECS. TOTAL# INPUT RETRIES

FILE	RECORD	INPUT	RECS.	MAX. SIZE	DATA RECORDS	PERM	READ ERROR	SUMMARY	SHORT	UNDEF.	#RECS.	TOTAL#	INPUT RETRIES
( 6080 )	2EE40000	00180000	00011D90	00000834	423C2147	42B8970A	419770A3	00180000	00011D95	0000FD20			
( 6120 )	423C51E8	42B7A885	413AB851	00180000	00011D98	00011238	4239C000	42B81C28	4141C28F	00180000			
( 6160 )	00011DA0	00001C20	4235428F	42B8E147	41E147A	00180000	00011DA0	00001C20	423500CC	42895E88			
( 6200 )	4155E885	00180000	00011DA2	00000E10	4232D1E8	42BA170A	416170A3	00180000	00011DA6	00000E10			
( 6240 )	422E6885	42B868F5	41768F5C	00011D88	00011DA8	0001518	422C51E8	42B84600	41840000	00180000			
( 6280 )	00011DAA	00000E10	422A3851	42B8CFD7	418FD70A	00180000	00011DAC	00033840	422807AF	42BDE3D7			
( 6320 )	419E3D70	00180000	00011DAE	00000E10	42262885	42BECF5C	41ACF5C2	00180000	00011D82	00001C20			
( 6360 )	423230A3	42C0D1E8	41CD1E88	00180000	00011D83	00000000	4224DC2E	42BEE8F5	41BFF5FC	00180000			
( 6400 )	00011D84	00000E10	42240F5C	42C07851	41C7851E	00180000	00011D86	00000000	4222451E	42C19E88			
( 6440 )	41D9EB85	00180000	00011D88	00001518	4220828F	42C30A3D	41F0A3D7	00180000	00011D88	00001C20			
( 6480 )	42222666	42C1D47A	41DD47AE	00180000	00011D8A	00000E10	421D8F5C	42C31E88	41F1E885	00180000			
( 6520 )	00011D8C	00000E10	4218E8F5	42C470A3	421070A3	00180000	00011D8E	00000E10	421A63D7	42C61999			
( 6560 )	42121999	00180000	00011DC1	00001C20	42180000	42C8C7AE	4214C7AE	00180000	00011DC1	00003840			
( 6600 )	00011DC4	00000E10	4213E8F5	42CAF5C2	4216F5C2	00180000	00011DC6	00000E10	4212851E	42C075C2			
( 6640 )	41E9C28F	42CF6147	42186147	00180000	00011DCA	00000E10	41D5E885	42D27AE1	421E7AE1	00180000			
( 6680 )	00011DDC	00001C20	41C26666	42D64F5C	42224F5C	00180000	00011DCE	00004650	41AF851E	42DB1E88			
( 6720 )	42271E88	00180000	00011DDC	41A80000	42D0C51E	00180000	00011DCE	00004650	00011DDC	00004650			
( 6760 )	418CA3D7	42DEE3D7	422AE3D7	00180000	00011DD0	00000000	41868F5C	42F187AF	422D87AF	00180000			
( 6800 )	00011DD2	00000E10	4175E885	42EA6E14	42366E14	00180000	00011DD4	00006978	416CF5C2	42F31C28			
( 6840 )	423F1C28	00180000	00011DD5	00011DD0	4167063C	42FE4580	4274580	00011DD5	00011DD5	00010D1A			
( 6880 )	4167063C	42FB4580	00000000	00011DD5	00011DD5	00011940	4166E147	42FB7851	00000000	00180000			
( 6920 )	00011DD5	00012750	415D47AE	4310823D	00000000	00180000	00011DD7	00000000	415D1E88	C255F333			
( 6960 )	00000000	00180000	00011DD7	00000480	415D2413	C25D0E22	00011DD7	00000000	00011DD7	0000048A			
( 7000 )	415D2413	C25D0E22	C25D0E22	00180000	00011DD7	00000000	415D2891	C255C0A4	C255C0A4	00180000			
( 7040 )	00011DD7	0000084A	415D2891	C255C0A4	00000000	00180000	00011DD7	00000000	415D2F95	C255B0D7			
( 7080 )	00000000	00180000	00011DD7	00000000	415D2F95	C255B0D7	C255B0D7	00180000	00011DD7	00007E80			
( 7120 )	415D8058	C2538637	00180000	00011DD7	00000000	00000000	415D8C58	C2538637	00000000	00180000			
( 7160 )	00011DD8	00006810	415F1717	C24E32D1	00000000	00180000	00011DD8	0000581A	415F1717	C24E32D1			
( 7200 )	4265C02E	00180000	00011DD8	00000824	415F9A89	C24C2DA8	4267D257	00180000	00011DD8	0000082E			
( 7240 )	415F9A89	C24C2DA8	42B40000	00000000	00011DD8	00000000	415F9FE4	C24C1897	42B40000	00000000			
( 7280 )	00011DD8	C0CCDFDE	415F9FE4	C24C1897	00000000	00180000	00011DD8	0000F386	415F86A5	C2488F10			
( 7320 )	426840EF	00180000	00011DD8	00000000	00011DD8	00000000	426840EF	00011DD8	00011DD8	0000E3CA			
( 7360 )	415F86A5	C2488F10	00000000	00180000	00011DD9	00002A30	416051E8	C2495C28	00000000	00180000			
( 7400 )	00011DD8	00005460	4167851E	C235F333	00000000	00180000	00011DD0	00000000	41700000	C23768F5			
( 7440 )	00000000	00180000	00011DD0	00001C20	4168F5C2	C22E4CCC	00000000	00000000	00011DDF	00000E10			
( 7480 )	41759999	C2278851	00000000	00180000	00011DE1	00001C20	41830A3D	C222851E	00000000	00180000			

04/14/73-09/20/81

1	(	0)	20A40000	00180000	0001306F	00008CA0	412170A3	C2254CCC	C22375C2	00180000	00013D76	0000C4E0
2	(	40)	41268F5C	C222C7AE	C221C0C0	00180000	00013D7C	000AC444	412A6666	C220947A	C2200A3D	00180000
3	(	80)	00C13D7C	000CFD29	411D1EB8	C242E214	C23FB7AE	0C1E00C0	00013D82	000038A0	412147AE	C23A6B85
4	(	120)	C2388F5C	00180000	00013D87	00007E90	4121EB85	C238947A	C236D47A	00180000	00013D8B	000053B6
5	(	160)	41247AE1	C2377333	C2361C28	00180000	000A3D88	000053C0	411851E7	42E3E851	4243A8F5	00180000
6	(	200)	00C13D8F	0000C864	411D1EB8	431C4F0A	4253970A	0C180000	00013C95	00008600	411D1EB8	43109CCC
7	(	240)	42587333	00180000	00013D95	0000E100	411E6666	431C0000	425A6666	00180000	00013D9E	00000000
8	(	280)	412CCCCC	42E1947A	422DDC28	00180000	00013DA2	000086D0	412AE147	42E380A3	42302E14	00180000
9	(	320)	00013DA7	00002A30	412970A3	42E58333	42325C28	00180000	00013DA7	00006270	4130CCCC	42CA28F5
10	(	360)	421528F5	00180000	00013DA9	000086D0	412F5C28	42C58851	4215C51E	00180000	00013D8C	00009A80
11	(	400)	41280A3D	42CD3333	421A6B85	00180000	00013DB4	060CA8C0	412828F5	42CEE5C2	421CC7AE	00180000
12	(	440)	00013DB4	00014370	411A8851	42E8028F	423728F5	00180000	00013DB8	0000708	41199999	42E80000
13	(	480)	423A6666	00180000	00013DB8	0001518	411D47AE	42D2CCCC	42276885	00180000	00013D8A	0000A8C0
14	(	520)	411D47AE	42D8CCCC	42276885	00180000	00013DB8	0000674	413970A3	42B98851	41588851	00180000
15	(	560)	00013DB8	0000CAE0	4136E147	428BF0A3	414F0A3D	00180000	00013DBE	00007E90	4133AE14	42892147
16	(	600)	4152147A	00180000	00013DC4	00011940	4130F5C2	42B05E88	4195E885	00180000	00013DC7	00007E90
17	(	640)	412F0A3D	428B75C2	4178A3D7	00180000	00013DC7	000086D0	41A947AE	42C22147	41E2147A	00180000
18	(	680)	00013DCB	0001368C	4146147A	42C3A147	41FA147A	0C180000	00013DD1	0000F020	414147AE	42C58333
19	(	720)	4211B333	00180000	00013DD1	00013FEC	4158A3D7	42B82885	41728851	00180000	00013DD3	00007080
20	(	760)	414FAE14	42BAF851	416F851E	00180000	00014055	00003F48	414AB851	42B8CA3D7	418A3D70	00180000
21	(	800)	00C1405B	0000CAE0	4145C28F	42E047AE	41547AE1	0C180000	00014C58	0000E18A	4142E851	42C5D999
22	(	840)	0001405B	00180000	00014064	00011940	414C28F5	42AA7AE1	C19851E8	00180000	00014068	0000CAE0
23	(	880)	41475C28	42AA35C2	C19CA3D7	00180000	00014072	00010830	414A0000	42AA0000	C1A00000	00180000
24	(	920)	00C14078	00011940	413E6666	42A9F5C2	C1A9A3D7	00180000	0001407F	0000F020	413A147A	42A9E3D7
25	(	960)	C1A1C28F	00180000	00014086	000108D8	41351E8A	42A9A885	C1A547AE	00180000	00014080	0000D2E0
26	(	1000)	41328F5C	42AA147A	C19E8851	00180000	00014094	0000AFC8	412D1E88	42AA4CCC	C1973333	00180000
27	(	1040)	0001409A	00009A80	412851E8	42A97333	C19C0000	00180000	000140A2	000093A8	41235C28	42A97851
28	(	1080)	C1951E8	00180000	000140A9	0000A8C0	411EE347	42A9A3D7	C180F5C2	00180000	000140B0	0000E808
29	(	1120)	411B0A3D	42A9570A	C17947AE	00180000	000140B5	0000CAE0	41187AE1	42A8E885	C1768851	00180000
30	(	1160)	000140B5	00014370	412170A3	4269F333	C24835C2	00180000	000140B8	00010830	412051E8	42652E14
31	(	1200)	C248C7AE	00180000	000140BE	00006A68	411EAE14	42664CCC	C2518000	00180000	000140BE	00006A72
32	(	1240)	414FAE14	42604CCC	426280C0	00180000	000140BF	0C012048	411FAE14	42E5E885	426051E8	00180000
33	(	1280)	000140CC	0000C8E8	411EE147	424F1E88	42536885	00180000	000140D0	00000000	411E8851	424A9E88
34	(	1320)	424CF333	00180000	000140D0	00005460	412147AE	421F028F	4220DE88	00180000	000140D3	00008D08
35	(	1360)	41233333	4218C7AE	421A51E8	00180000	000140D8	00000000	41266666	4213AE14	42148070	00180000
36	(	1400)	000140E3	00C12E58	41283333	421CAG66	0C180000	000140E2	00010830	4120C28F	41E9E885	
37	(	1440)	41E5C5C2	00180000	000140EF	0000AFC8	413DA3D7	41D570A3	41D570A3	00180000	000140E8	00012750
38	(	1480)	4134F5C2	418C31E8	418C31E8	00180000	000140FF	00013560	4139C28F	41A6147A	41A6147A	00180000
39	(	1520)	00C141C4	00011940	413C51E8	41559999	0C180000	0001410F	0001410F	41A051E8	418A147A	
40	(	1560)	418A147A	00180000	00014112	00008CA0	4143D70A	41763D70	41763D70	00180000	00014119	00011940
41	(	1600)	414851E8	416D9999	416D9999	00180000	00014120	00010830	414CCCCC	415E0A3D	415E0A3D	00180000
42	(	1640)	0001412A	0000C8E8	4152147A	414FD70A	414FD70A	0C180000	0001412E	00010830	41547AE1	4145E885
43	(	1680)	4145E885	00180000	00014135	000086D0	4158A3D7	41370A3D	41370A3D	00180000	00014135	0000E100
44	(	1720)	413D47AE	C1CC0000	C1CC0000	00180000	0001413C	00010830	414147AE	C1CCF5C2	C1CCF5C2	00180000
45	(	1760)	00014143	00001FA4	414570A3	C1C6E147	C1C6E147	00180000	0001414C	00006978	414A6666	C1859999
46	(	1800)	C1859999	00180000	00014158	000026AC	412C51E8	C21930A3	00180000	00014161	000027D8	
47	(	1840)	41323D70	C216C51E	C216C51E	00180000	00014166	00001518	413451E8	C216F333	C216F333	00180000
48	(	1880)	00014166	00007080	411F0A3D	C23511E8	C232CCCC	00180000	00014174	00013560	4126147A	C228F851
49	(	1920)	C22A0E88	00180000	00014178	00032048	41270A3D	C22C5E88	00180000	0001418A	00011238	
50	(	1960)	4117AE14	C24E0F5C	C24A3851	00180000	0001418E	0C0111CC	40599999	42C091E8	42FA4F5C	00180000
51	(	2000)	0001418E	00011116	4120F5C2	42D9F0A3	4227DC28	00180000	00014193	00002328	411F3333	42D0C28F
52	(	2040)	422C0000	00180000	000141A3	00009A80	000141A3	42B88851	41C851E8	00180000	000141A3	000002F0
53	(	2120)	00C14180	00008340	412D70A3	42D75C28	4223947A	0C180000	00014185	0000A188	412BAE14	42C93333
54	(	2160)	412C28F5	00180000	000141B5	0000E808	412EB851	42D275C2	42E91E8	00180000	0001418C	00000000
55	(	2200)	412C28F5	42D42885	422C851E	00180000	0001443F	0000CAE0	41299999	42D5E666	4228A3D	00180000
56	(	2240)	00C1443F	0000E100	414147AE	42B59999	41159999	0C1E0000	00014444	00010830	413E3D7C	42E523D7
57	(	2280)	4135E885	42861999	0001444A	00007080	41380A3D	42B4D7CA	40D79A3D	00180000	00014453	0000C014
58	(	2320)	00C14455	00012F84	413E6666	42A5E885	C1A147AE	0C180000	0001445A	0000E100	413C28F5	42A92147
59	(	2400)	C1A0E885	00180000	00014460	00005460	413547AE	42A8E8F5	C1B170A3	00180000	00014466	000057E4
60	(	2440)	41363D70	42A85E88	C1B1A47A	00180000	0001446E	00008928	4131C28F	42A80F5C	C1BFA3D	00180000
61	(	2480)	00C14475	0000A9D4	412E6666	42A78F5C	C1C4F5C2	00180000	00014478	000038C4	412BAE14	42A7451E
62	(	2520)	C1C547AE	00180000	00014489	000050DC	4124F5C2	42A5CA3C	C1CFA3D	00180000	0001448F	0000A058
63	(	2560)	41233D70	42A687AE	C18C51E8	00180000	00014497	0C0C2A30	411E8F5C	42A4FAE1	C1CA8F5C	00180000

Pages 10  
17876

DUMP OF TAPE SINI

INPUT TAPE SINI ON TBU  
DATA INPUT H9 NF 3 FL=3=1=1

FILE	1 RECORD	1 LENGTH	80BYTES	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
( 0 )	564F4C31	50494F4E	31302020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
( 40 )	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202033

FILE	1 RECORD	3 LENGTH	80BYTES	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
( 0 )	48445232	46303831	39323038	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	40202020
( 40 )	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020

FILE	RECS	INPUT	DATA RECORDS	MAX SIZE	PERM	READ ERROR	SUMMARY	SHORT	UNDEF	#RECS	TOTAL#
1	3	4	80	0	0	0	0	0	0	0	0
2	1	1	LENGTH	8192BYTES							
( 0 )	00010004	01000100	01000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	01010100
( 40 )	00200000	00000000	0A50494F	4E31302E	42434800	00000000	00000000	00000000	00000000	00000000	ED68D05D
( 80 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 120 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 160 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 200 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 240 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 280 )	4F4E3130	2E424348	2A000200	42414343	55502F56	45524946	592F4C4F	47205031	302A2E44	41542040	01005049
( 320 )	4641313A	50494F4E	31302020	43480C00	04004B41	59534552	20202020	20202020	05008000	48000800	01005049
( 360 )	0605E966	F98BAF70	90000200	07000004	04000800	56342E3E	08000500	5F4E3353	44433A3A	04000A00	01005049
( 400 )	ED803801	0C000B00	5F4E5353	44432440	4641313A	04000C00	56342E35	04000D00	00200000	02000E00	01005049
( 480 )	30424F4E	452E4441	54383102	00280001	0206002C	00093928	00010004	002E0042	00000004	002F0008	01005049
( 520 )	0A80002C	00340000	00140000	00420000	00410000	00000000	00000000	00000000	00000000	00000000	01005049
( 560 )	0020000F	38030000	00200030	0000AA02	00310000	00010032	00000400	33000000	00000200	4800FF7F	01005049
( 600 )	01005000	00010057	00000400	4F004300	00060200	35000200	08000360	80C1C297	67709000	08003700	01005049
( 640 )	604A9123	A8709000	08003800	606AA335	E1BC9000	08003900	00000000	00000000	04004700	0800A800	01005049
( 680 )	02004800	80AA0200	4A000000	00000000	00000000	00000000	00000000	00000000	01000000	00000000	01005049
( 720 )	A9190100	80A90000	DE42C8C8	3E4485AB	23426290	AF190100	60A90000	B542380A	4244146E	5642831E	01005049
( 760 )	B6190100	00690000	93425085	49444AFA	A342A898	B6190100	0A690000	93425085	49444AFA	00000000	01005049
( 800 )	B6190100	447F0000	9342A070	4A440300	00000000	B6190100	4E7F0000	9342A062	4A440300	4442F027	01005049
( 840 )	B8190100	00000000	8842A070	484499D9	B14280A2	B8190100	287D0000	8A428093	49446634	9C428060	01005049
( 880 )	B8190100	32700000	8A2809B8	45446334	00000000	B8190100	94890000	8A428086	48442CF1	00000000	01005049
( 920 )	B8190100	9E850000	8A258886	48442CF1	9A426044	B8190100	84E4C000	894280E8	47441E05	8A4218D2	01005049
( 960 )	BF190100	70170000	46425138	5044A380	D342F08F	BF190100	A0410000	10420000	544451F8	F142D088	01005049
( 1000 )	BF190100	0C7E0000	0E42AA9E	5544267A	00000000	BF190100	CE4A0000	0F4234C8	5544B808	00000000	01005049
( 1040 )	BF190100	C44A0000	F5414889	5C4483C5	17435C52	C1190100	AE4B0100	F5414889	5C4483C5	00000000	01005049
( 1080 )	C1190100	A44B0100	F5414889	5C4483C5	17435C52	C1190100	AE4B0100	F5414889	5C4483C5	00000000	01005049
( 1120 )	C4190100	103A0100	C84106A3	6544E025	00000000	C8190100	300B0000	9E417A14	7844881E	00000000	01005049
( 1160 )	C9190100	68F10000	9741285C	81444E01	00000000	CA190100	20FD0000	87413C0A	43C35C8F	00000000	01005049
( 1200 )	CB190100	38120100	8E416666	884458CF	00000000	CB190100	D04C0100	87413C0A	43C35C8F	00000000	01005049
( 1240 )	CF190100	C0A80000	BD418EC2	F3C23033	00000000	D1190100	A08C0000	DC41E07A	C6C2588F	00000000	01005049
( 1280 )	D3190100	48200100	FB411E85	A6C2D0A3	00000000	D7190100	C0A80000	1C420CCC	78C2E17A	00000000	01005049
( 1320 )	D9190100	80700000	2C42D7A3	58C214AE	00000000	DB190100	D4490000	38420AD7	42C2703D	00000000	01005049
( 1360 )	DD190100	F8430000	4A425C8F	30C2E17A	00000000	DF190100	40380000	5942AE47	1FC21E85	00000000	01005049
( 1400 )	E1190100	483F0000	674214AE	1UC2E17A	00000000	E3190100	50460000	75428FC2	04C2588F	00000000	01005049
( 1440 )	E5190100	38310000	814208D7	F1C1AE47	00000000	E6190100	842D0000	8542404D	8FC1EC5D	00000000	01005049
( 1480 )	E6190100	BE2D0000	8542404D	E8C1EC5D	0FC28EEC	E7190100	842D0000	8842088C	DFC1285C	0AC2B29D	01005049
( 1520 )	E9190100	50460000	8F42AB47	CEC17A14	00C3507C	EA190100	40380000	954280E8	BFC13C0A	EEC174E0	01005049
( 1560 )	ED190100	302A0000	9C42E028	B3C11E85	E0C1847C	EF190100	50270100	A2427814	A5C1881E	CFC1FA5C	01005049
( 1600 )	F0190100	B09A0000	B6427814	AFC114AE	D0C12289	F0190100	201C0000	9842E07A	80C1D6A3	A2C184E8	01005049
( 1640 )	F1190100	40380000	984288C2	7FC1285C	ACC19404	F3190100	201C0000	A2420000	71C1AC47	A2C184E8	01005049
( 1680 )	F5190100	40380000	A74210AE	61C1AC47	98C1A44E	F7190100	40380000	AD421885	4EC15088	8CC13E57	01005049
( 1720 )	F9190100	809A0000	B342285C	45C1881E	84C1848A	F9190100	809A0000	8642703D	43C108D7	82C18C53	01005049
( 1760 )	F5190100	907E0000	B84250B8	3EC15088	7EC1A860	011A0100	A08C0000	C942A070	25C18CC2	56C10009	01005049
( 1800 )	031A0100	A08C0000	CE42D0A3	21C1AC47	4CC16CC5	031A0100	A81A0100	CF4260BD	20C1D861	4AC190DC	01005049

( 7120)	311E0100	50460000	17423333	00C10000	96C1762F	331E0100	40380000	1942881E	EBC0188E	90C1D288
( 7160)	351E0100	784A0100	18421E85	E6C06C66	8EC1D895	381E0100	28230000	1C42C2F5	CFC0285C	88C1B06B
( 7200)	3B1E0100	38310000	1F421E85	C3C00807	84C192D0	301E0100	201C0000	2142881E	B4C0E07A	80C13E84
( 7240)	3F1E0100	201C0000	23423D0A	B7C0380A	80C11E9A	411E0100	00000000	2542AE47	94C0E07A	6EC1DC9D
( 7280)	431E0100	201C0000	26426666	91C080E8	6CC170AD	451E0100	00540000	2842C3F5	ACC0C8CC	78C1D898
( 7320)	451E0100	63540000	29428FC2	09C19899	95C186A8	471E0100	100E0000	2A425C8F	9EC050B8	70C1E098
( 7360)	491E0100	100E0000	284214A4	ABC01885	76C12C52	4D1E0100	302A0000	2E4251B8	CAC0703D	81C108EA
( 7400)	4F1E0100	100E0000	32427A14	FCC0F028	80C1625B	511E0100	100E0000	32425C8F	CAC0703D	80C14CBA
( 7440)	521E0100	28230000	3422EB51	CEC07814	81C17E23	551E0100	100E0000	3642703D	EF0285C	88C142DB
( 7480)	561E0100	201C0000	3842EB51	FDC0A070	88C19C68	591E0100	201C0000	38423D0A	FEC050B8	88C1522E
( 7520)	581E0100	40380000	3D42EB81	F8C0E851	78C10EEC	631E0100	00E10000	4442EB51	D1C080E8	7AC1B418
( 7560)	631E0100	10EF0000	4442EB51	D1C080E8	7AC1B418	631E0100	50270100	2042C2F5	6640666A	D5C088E0
( 7600)	641E0100	80700000	2542AE47	63400AD7	D6C050D5	661E0100	80700000	26425C8F	5440E17A	DDC08801
( 7640)	671E0100	48200100	2E4247E1	F5808EC2	20C18C87	721E0100	50C40000	3142881E	8FBF285C	2FC13826
( 7720)	721E0100	00E10000	3142881E	94BF0E7A	2FC18C8A	721E0100	4019C000	134214AE	7A4047E1	DFC09829
( 7760)	731E0100	5CC10000	1442D7A3	88401885	D0C07808	741E0100	80700000	1442C2F5	7840EB51	DFC0F00A
( 7800)	771E0100	80700000	164251B8	4C40CC0C	F2C0D0DE	7C1E0100	E0C40000	2042C2F5	F58D8EC2	28C118CE
( 7840)	7C1E0100	48200100	21429999	A38E08D7	28C108A3	7C1E0100	100E0000	06427A14	0C40CC0C	12C16C83
( 7880)	7E1E0100	80700000	20010000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 7920)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8040)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8080)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

FILE	2	RECORD	2567	LENGTH	8192	BYTES				
( 0)	00010004	01000200	7C090000	00000000	00000000	00000000	00000000	00000000	01010100	4682E672
( 40)	00230000	00000000	0A50494F	4E31302E	42434800	00000000	00000000	00000000	00000000	00000000
( 80)	F6243100	01000F3B	03000100	14584841	59534552	50503130	4F52422E	44415438	31000000	00000000
( 120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 200)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 240)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 280)	E84FEC6C	9850A08E	934EC858	E0406009	4F420329	29403D58	A350F844	57429735	0C4EA562	4741BCFF
( 320)	88433444	51893927	7F405E30	A85048DF	3F090D73	00000000	00000000	F84F1C4F	9850E0CA	934EA02F
( 360)	4F42644F	2940005E	A350586D	5742463C	0C4EB273	474118C1	88438A5C	95389E9C	0840A340	A850A8FF
( 400)	16090000	00000000	E84F5853	9850000B	934EF0FE	E0400048	4F42984E	29405958	A350E855	5742B045
( 440)	0C4E80A3	4741BCC3	8843A059	083A5A15	5A47600E	A850802F	17090000	00000000	E84F3A0B	9850C8A3
( 480)	934E703D	E0403876	4F421054	29409C5F	A350808F	57425569	0C4EAAC1	4741ECDA	8843E85E	ED39BB06
( 520)	A2445890	B550E026	08090D00	00000000	E94F82C3	985090AD	934E9045	E040F882	4F42CBAC	2940F546
( 560)	A3503866	564291C5	0C4ED0C8	474110D4	88437843	8338008C	8744E86B	B25098D0	4210D000	00000000
( 600)	EE4FDCBE	8B5000E0	AC4E506F	EA408850	514250F5	284086DE	AE504061	54428919	0C4E850A	47418051
( 640)	8043324A	4EB83A7C	7F43240D	A1506811	D5210000	00000000	EE4F229F	8B50A0C8	AC4EA046	ED40609C
( 680)	514285FC	284086D9	AE50308F	5542A3F3	0C4E51CF	47419450	8D434C46	8E8A5D70	98431619	A150502C
( 720)	B6210D00	00000000	EE4F8A53	885018F5	AC4EB855	ED40C88A	514230F4	2B4052E2	AE506089	5442E517
( 760)	0C4E33C0	47414853	8D43877B	B388EE12	1843F4E0	A35070C4	88780000	00000000	1E00AE2C	2C000006
( 800)	390008E9	3600709E	0100FFE1	0000A92	1C00001E	06C0F4B3	2000D8E2	390030D3	0000B497	010050C4
( 840)	D901F12	0C0086C7	55670000	00000000	1E006633	2000D8E2	C80E88A3	E400EF35	0D006846	57670000
( 880)	1C005840	060045C3	000000D8	0100FC06	00006008	C80E88A3	E400EF35	0D006846	57670000	00000000
( 920)	1F0148E3	2C00E803	39000891	360010A9	0100FFEF	00C0719D	0000A862	07008108	00006AC7	010058C6
( 960)	0000F8DF	66005047	CB00AE52	00005048	55670000	00000000	1F007AAD	2D0070E5	3A002877	3600C090
( 1000)	0100C0E4	00005897	1C007802	07005645	0000F83C	010028C0	0000E808	7F00F588	3700878C	0D006846
( 1040)	5B670000	00000000	1F009C46	000040D8	2C00A006	3A00E02A	3600C0E0	01007AFC	0000F69C	1C002062
( 1080)	00008D71	0100F4C6	00000000	010014FA	000068A3	1C00C042	0C00D05D	50670000	00000000	1F0070DF
( 1120)	3A0220D0	360080D3	010014FA	000068A3	1C00C042	0C00D05D	50670000	00000000	1F0070DF	2C007026
( 1160)	2B0000FE	0C00887D	0700E1D1	0100A482	01001CC4	00000000	00000000	0100859C	0000A4C9	09834539
( 1200)	1C60082F	0700E1D1	0100A482	01001CC4	00007C8C	4302A583	59008627	36008021	0100D1EB	0000E5A5
( 1240)	1F0118ED	2C00D032	3A006020	36009833	010068E4	0000AFB6	00000000	07008CCB	C1G021A4	01002CC5
( 1280)	0000B68B	7D03A336	6200E132	0C00F806	5B670000	00000000	1F0094F3	2C002813	3A00A038	3600F0E6
( 1320)	010000FE	000039B5	1C00302E	070073DD	0100A89E	010044RA	0000B48F	3000C036	7300FBFD	0C0060C3
( 1360)	55670000	00000000	1E00F602	2C00A011	3A003877	36C08077	1E00E11A	000051AD	14000006	0700D9EC
( 1400)	010015EF	01000899	00005693	CC03611F	660026F8	00C0C035	37670000	00000000	1E00526E	2C00A86C
( 1440)	3AC99852	360028E1	1E00370A	000068ER	0800D0E2	0700CC5E	0200A212	0100D48A	0000CAA9	7C03FDDF

( 6760)	1F0061A0	06005068	0400A068	0200E873	0000B8BF	00000CD3	03001C7A	49805584	3C003EA0	1600F8F4
( 6800)	11290000	00000000	0200AC0C	04008824	0600B07F	0E0080EC	1F00AFDF	06004C64	0400A811	0300779F
( 6840)	0000BC80	00004002	03005A86	0C826018	2000366F	17004820	F32AC000	00000000	0200AE1B	0400880B
( 6880)	0100A8C0	0E00D84A	1F00D7D1	0600A068	04006050	00003545	00000D88	0000888E	F8013900	
( 6920)	24008ADC	1700161C	E12A0000	00000000	02006E18	04006039	010078D3	0E008857	1F0009D0	0600206C
( 6960)	04004070	00009980	0000B48C	000004CD	030038F0	F2005FCB	27001CE8	1700A80F	FF2A0000	00000000
( 7000)	0200E004	04005004	0200400D	0E00905F	1F00C807	0600869C	0400E830	000086FF	00003CEA	000050CE
( 7040)	0300EC80	88011994	300098D1	1700E000	F12A0000	00000000	0200400A	04004064	02002007	0E005076
( 7080)	1F004AC0	0600DB8B	04000013	0300D025	00003E06	0000ACCE	0300E290	9181A136	0A00E127	1700907A
( 7120)	F32A0000	00000000	02001E28	04001078	02003845	0E00CF0D	1F00C820	06002F75	050078D3	0300435A
( 7160)	0000616E	000001CF	0300E094	098FE656	13001428	08004007	F12A0000	00000000	02003632	04009068
( 7200)	0200084C	0E00B079	1F003C20	06008277	0400E281	0300883E	0000EF4F	0000B0CE	0300E6A4	F581C48F
( 7240)	14000E8C	080028F9	00000000	0200209C	0400B013	0300883E	0000EF4F	0000B0CE	0300E6A4	F581C48F
( 7280)	050018F9	03006831	00008599	00009CCA	030000A7	69831D64	0F002A6A	0800A827	F12A0000	00000000
( 7320)	0200AA96	0400700F	0200F08D	0E00804A	1F00B00F	06009358	0400380F	020041E4	00002EAD	000034C5
( 7360)	030078DC	568040EB	8604B64A	0800E801	E32A0000	00000000	0200869F	04006838	0200F8FF	0E00284C
( 7400)	1F007711	0500358C	0500380F	0200258A	00008888	000028C2	03008C0G	43804003	7A04300C	0800C8D6
( 7440)	E12A0000	00000000	02009C66	0400F803	020050B2	0E00C845	1F000713	0500B388	04003031	0200DEBA
( 7480)	00007C90	0000F0C2	030000DC	750E4598	8A0544E8	0C00C8F4	EF2A0000	00000000	0200B28D	0400E81C
( 7520)	02004052	0E005041	1F00CC10	05009A88	04000011	020012F3	000044C9	000038C3	030078D1	F98D8452
( 7560)	C80525CC	0C00E0F9	11280000	00000000	03008069	0400R009	02007806	010020C0	1E0057E1	05004FB9
( 7600)	04002813	0300FE99	0100B3E5	0000F8C2	03008AC4	EF827BF5	26058E22	0C00D05C	02E80000	00000000
( 7640)	030050C2	030000F9	02005806	0100B0C0	1E001FF3	050067BF	04006833	03006645	010008F2	0000A4C6
( 7680)	1E00EEF1	0500CAB9	04007071	0C008F45	010052CF	0000B4C4	030084C2	2E82C52E	64015988	0C003038
( 7720)	70280000	00000000	03000609	0400B026	030078C2	0100C8C6	1E0052FF	050066A3	0400E011	0300525C
( 7760)	01003809	0000A4C6	030088C9	CC0E6259	1501F47	0C0028EE	74280000	00000000	0200941E	0400C009
( 7800)	030060C2	0100F058	1E0014F0	050087AE	04003829	03006A67	0100E611	000024C7	030000CF	8D0124D5
( 7840)	A3045AE1	00007058	68280050	00000000	02005406	0400B03A	0300E08F	0100D0C9	1E00B8F2	0500F1A6
( 7920)	04000877	0300076D	000011A2	000068C9	03003CCD	130FE397	63043C04	0000E074	00000000	00000000
( 8000)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8040)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8080)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8120)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 8160)	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

FILE	INPUT RECS.	INPUT RECORDS	DATA RECORDS	MAX. SIZE	READ ERROR SUMMARY	PERM ZERO B	SHORT	UNDEF.	INPUT RETRIES
	2	2567	2568	8192	0	0	0	0	0
FILE 3	RECORD	1	LENGTH	80 BYTES					
( 0)	454F4631	50494F4E	31302E42	43482020	20202020	2050494F	4E313030	30303130	30303130
( 40)	30203837	32363020	30303030	30203030	32353637	44454356	4D534241	43485550	20202020
FILE 3	RECORD	2	LENGTH	80 BYTES					
( 0)	454F4632	46303831	39323038	31393220	20202020	20202020	20202020	20202020	4D202020
( 40)	20202020	20202020	20203030	20202020	20202020	20202020	20202020	20202020	20202020

FILE	INPUT RECS.	INPUT RECORDS	DATA RECORDS	MAX. SIZE	READ ERROR SUMMARY	PERM ZERO B	SHORT	UNDEF.	INPUT RETRIES
	3	2	3	80	0	0	0	0	0
EOJ	DUMP STOPPED AFTER FILE	3	# OF PERMANENT READ ERRORS	0					
START TIME 12/10/87 16:17:15 STOP TIME 12/10/87 16:20:40									
\$\$\$									
\$\$\$ IN TAI									
\$\$\$E TPOUMP BS									

Placed in  
D 77877

DUMP OF TAPE SIN2

INPUT TAPE SIN2 ON TAI  
DATA INPUT H9 NF 3 FL=3=1 1

FILE	1	RECORD	1	LENGTH	80BYTES	20202020	20202020	20202020	20202020	20202020	20202020	20202020
( 0 )	564F4C31	50494F4E	31312020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020
( 40 )	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202033

FILE	1	RECORD	3	LENGTH	80BYTES	20202020	20202020	20202020	20202020	20202020	20202020	20202020
( J )	48445232	46303831	39323038	31353220	20202020	20202020	20202020	20202020	20202020	20202020	20202020	4D202020
( 40 )	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020	20202020

FILE	INPUT	DATA RECORDS	MAX. SIZE	PERM	ZERO	B	SHORT	UNDEF.	#RECS.	TOTAL#
1	RECS	4	80	0	0	0	0	0	0	0

FILE	2	RECORD	1	LENGTH	81926BYTES	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 0 )	00010004	01000100	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	01010100	A48CE6CC
( 40 )	00200000	00000000	0A50494F	4E31312E	42434800	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 80 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 120 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 160 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 200 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 240 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 280 )	4F4E3131	2E424348	2A000200	42414348	55502F56	45524946	592F4C4F	47205031	312A2E44	4154204D	01005049	01005049
( 320 )	4641313A	50494F4E	31312E42	43480C00	04004841	59534552	20202C20	20200400	05000800	48000800	05000800	48000800
( 360 )	06060D01	83E1AD70	90000200	07000004	04000800	55342E35	08000500	5F4E5353	44433A3A	04000A00	44433A3A	04000A00
( 400 )	0A000200	0F000300	F0000300	00000000	00000000	04000C00	56342E35	04000D00	00200000	02000E00	00200000	02000E00
( 480 )	31434F4E	452E4441	543B3102	00260001	0206002C	0C883124	00101004	002E0036	00000000	00000000	00000000	002F0008
( 520 )	00A80020	00340001	00140000	00360000	00350050	01000014	00000000	00000000	00000000	00000000	00000000	4B00FF7F
( 560 )	0020000F	3B030000	00000030	00000000	00000000	00010032	00000400	33000000	00000200	484C3852	6A709000	08003700
( 600 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 640 )	80F3FA23	A8709000	08003800	80B30C36	E1B90000	08003900	00000000	00000000	00000000	00000000	00000000	0800A800
( 680 )	02004800	88AA0200	4A000030	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
( 720 )	90100100	34080000	70431C85	38440A97	924146E1	991D0100	20F00000	7143AC47	374485AB	6A4144E1	3C41F428	3C41F428
( 760 )	9B1D0100	38120100	67430000	3844281C	83411E85	A01D0100	201C0000	55433C0A	384447E1	9C41F428	3C41F428	3C41F428
( 800 )	A01D0100	201C0000	54433033	3944885E	A8A10AD7	A21D0100	10E00000	4843AC47	3A440A17	C24146E1	C24146E1	C24146E1
( 840 )	A61D0100	100E0000	394314AE	3B44F568	E44B81E	A81D0100	18150000	3143AC47	3C440040	04420000	04420000	04420000
( 880 )	AA1D0100	100E0000	284344E1	3C4470FD	0F420AD7	AC1D0100	40380000	2043B81E	3D44D7E3	1E42703D	1E42703D	1E42703D
( 920 )	AE1D0100	100E0000	184314AE	3E445CCF	2C42C2F5	B21D0100	201C0000	08438CC2	4D42B81E	4D42B81E	4D42B81E	4D42B81E
( 960 )	B31D0100	00000000	1343A070	3F44F5E8	3E425C8F	B41D0100	100E0000	1043703D	40445178	47421E85	47421E85	47421E85
( 1000 )	B61D0100	00000000	09437814	4144B89E	594285EB	B81D0100	18150000	02433C0A	43443D0A	7042D7A3	7042D7A3	7042D7A3
( 1040 )	B81D0100	201C0000	00439899	41447AD4	5D42AE47	B41D0100	100E0000	EC42E07A	4344881E	714285EB	714285EB	714285EB
( 1080 )	BC1D0100	100E0000	DF42A847	4444A370	83421885	BE1D0100	100E0000	D342B81E	46445919	9042C8CC	9042C8CC	9042C8CC
( 1120 )	C11D0100	201C0000	C0420030	4844AEC7	A64290B8	C41D0100	100E0000	AF4288C2	48449919	A042C8CC	A042C8CC	A042C8CC
( 1160 )	C61D0100	100E0000	9442F028	4D44C275	CB4210AE	C81D0100	100E0000	8942A070	50446626	E1423033	E1423033	E1423033
( 1200 )	C81D0100	201C0000	69428FC2	4F444761	DB42380A	CA1D0100	100E0000	554285EB	5244E17A	F34208D7	F34208D7	F34208D7
( 1240 )	CD1D0100	201C0000	42426666	56445C4F	09437030	CE1D0100	50460000	0C4207A3	5844881E	1C43E07A	1C43E07A	1C43E07A
( 1280 )	CF1D0100	40380000	28420000	06425C8F	6144AE87	D21D0100	100E0000	EB410AD7	6A44146E	594350B8	594350B8	594350B8
( 1320 )	D01D0100	00000000	094184EB	7344281C	7C43A070	D51D0100	10000100	CE41780C	7B448045	8E430088	8E430088	8E430088
( 1360 )	D11D0100	78690000	094184EB	8544E891	00000000	D71D0100	00000000	C0418EC2	7B445178	00000000	00000000	00000000
( 1400 )	D41D0100	50270100	BA415C8F	8544E891	00000000	D71D0100	00000000	BA418EC2	7B445178	00000000	00000000	00000000
( 1440 )	D51D0100	80040000	BA415C8F	8544E891	00000000	D71D0100	00000000	BA418EC2	7B445178	00000000	00000000	00000000
( 1480 )	D71D0100	40080000	BA412257	ABC34881	ABC34881	D71D0100	8A040000	BA412648	ABC344BC	ABC344BC	ABC344BC	ABC344BC
( 1520 )	D71D0100	40080000	BA412257	ABC34881	ABC34881	D71D0100	8A040000	BA412648	ABC344BC	ABC344BC	ABC344BC	ABC344BC
( 1560 )	D71D0100	40080000	BA412257	ABC34881	ABC34881	D71D0100	8A040000	BA412648	ABC344BC	ABC344BC	ABC344BC	ABC344BC
( 1600 )	D71D0100	40080000	BA412257	ABC34881	ABC34881	D71D0100	8A040000	BA412648	ABC344BC	ABC344BC	ABC344BC	ABC344BC
( 1640 )	D71D0100	807F0000	8B41B660	A7C36E6C	A7C36E6C	D71D0100	8A7F0000	8B41B660	A7C36E6C	A7C36E6C	A7C36E6C	A7C36E6C
( 1680 )	D81D0100	10680000	BE412E2E	9CC3A265	9CC3A265	D81D0100	1A680000	BE412E2E	9CC3A265	9CC3A265	9CC3A265	9CC3A265
( 1720 )	D81D0100	24D80000	BF411235	98C35058	CF43AE4A	D81D0100	2EDB0000	BF411235	98C35058	98C35058	98C35058	98C35058
( 1760 )	D81D0100	D4DF0000	BF41C83F	98C32E31	34440000	D81D0100	DED00000	BF41C83F	98C32E31	98C32E31	98C32E31	98C32E31
( 1800 )	D81D0100	B6F30000	BF414A6D	97C3207E	D043DE81	D81D0100	C0F30000	BF414A6D	97C3207E	97C3207E	97C3207E	97C3207E

1	( 7120 )	64210100	H8A10000	F3413233	3044C2B5	52C15C8F	65210100	CC246000	F141ECDF	3044ACA2	57C1C054
2	( 7160 )	65210100	D6240000	F141ECDF	3044ACA2	00000000	56210100	00000000	F0410000	3044AE87	00000000
3	( 7200 )	67210100	00000000	E6417A14	3044281C	00000000	6A210100	00000000	E3411F85	2F447AD4	00000000
4	( 7240 )	68210100	00E10000	DF41285C	2F445CCF	00000000	68210100	10EF0000	DF41285C	2F445CCF	00000000
5	( 7280 )	69210100	28040100	0A42703D	31445C4F	00000000	68210100	40190100	0A42703D	31445C4F	00000000
6	( 7320 )	6F210100	00000000	08420100	3144142E	00000000	70210100	00000000	0442C2F5	304447A1	30000000
7	( 7360 )	71210100	10EF0000	02427A14	304485AB	00000000	71210100	18F60000	02427A14	304485AB	00000000
8	( 7400 )	72101000	300B0100	0942A370	3244CC0C	00000000	71210100	40190100	09429999	32443D0A	00000000
9	( 7440 )	73210100	201C0700	1842D7A3	3144289C	00000000	75210100	00000000	164251B8	3144708D	00000000
10	( 7480 )	77210100	00000000	12426666	31440A57	00000000	79210100	100E0000	1042F528	31444761	00000000
11	( 7520 )	7A210100	5CCF0000	0E425188	3144EB51	00000000	7A210100	300B0100	20428FC2	3244D7A3	00000000
12	( 7560 )	7B210100	40380000	2C42F528	31445178	00000000	7B210100	408C0000	2C42F528	314451F8	00000000
13	( 7600 )	7C210100	685B0000	28420AD7	32445138	00000000	7C210100	70620000	2C42F528	314451F8	00000000
14	( 7640 )	7D210100	A08C0000	20420000	314433F3	00000000	7E210100	E8C80000	2A429C8F	31448FC2	00000000
15	( 7680 )	7D210100	00000000	23423D9A	32443DCA	00000000	81210100	44070000	2342D405	32444DC9	00000000
16	( 7720 )	81210100	00000000	1E4247E1	32448F82	8EC050B8	82210100	20FD0000	22427030	32448B9E	80C0D0A3
17	( 7760 )	81210100	4E070000	2342D405	32444DC9	9BC03059	82210100	00000000	30428FC2	334441EE	8F8E285C
18	( 7800 )	8A210100	F0D20000	1E4247E1	32448F82	8EC050B8	88210100	00000000	39428FC2	334441EE	8F8E285C
19	( 7840 )	8E210100	3C42E000	3C42E000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
20	( 7880 )	8A210100	00600000	20110000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
21	( 7920 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
22	( 8000 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
23	( 8040 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
24	( 8080 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
25	( 8120 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
26	( 8160 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

27	FILE	2	RECORD	3024	LENGTH	8192	BYTES				
28	( 0 )	00010004	01000200	CE9B0000	00000000	00000000	00000000	00000000	01010100	18E7AC7A	
29	( 40 )	00200000	00000000	0A5C494F	4E31312E	42424860	00000000	00000000	00000000	00000000	00000000
30	( 80 )	33252600	0100DF3B	03000100	14584B41	59534552	5D533131	4F52422E	44415438	31000000	00000000
31	( 120 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
32	( 160 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
33	( 200 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
34	( 240 )	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
35	( 280 )	50CFA009	58D08700	454F8C03	70410877	59C221C5	504140E4	4750C281	60424EDA	0C4E64EA	834258A0
36	( 320 )	8444419C	5DB8475C	C8439C98	7050C35F	38350D00	00000000	53CF80F5	59D08454	454F1829	7241C006
37	( 360 )	5E2C5005	50417CE0	4650745C	6C426826	0C4EED8	8342B0A9	8444B2F4	1989E17C	064306A5	7050DCCA
38	( 400 )	0C4E418D	8342A8A9	8444145E	98B826BC	C3439887	705022B5	2A350D00	50418444	4650542C	6D425F3A
39	( 440 )	444F7055	72413427	5DC22D86	50418CE6	465048F0	6042061F	0C4EE86C	83428B8A	844451E5	BD38DE1E
40	( 480 )	FF432779	70507558	2F350000	00000000	52CFEC85	59D09249	444F541A	7241343A	5DC281B3	504188D6
41	( 520 )	4650D5CB	6E4289EA	0C4E0700	834220AF	8444EEEF	373599C8	E443784F	7E502C21	2C350D00	00000000
42	( 560 )	52CF7CA0	58D02597	444F2057	7241C224	5DC244A9	50411CCE	5950E89A	6E423C83	0C4EC23D	8342D0AE
43	( 600 )	84447E16	8C383B08	ED43FED3	795030A1	29350D00	00000000	53CFEC8E	58D08A95	454FA4B5	724184FC
44	( 640 )	5DC224B6	504104C5	5950446E	6E427FFC	0C4EA8EF	834278AE	84446519	2539C254	F4437C12	79508D37
45	( 680 )	2E350D00	00000000	5DC99477	58D0E3A9	454F5C8B	724148FA	5DC28BA2	5041C0D5	59507E3E	6F42FE00
46	( 720 )	0C4E4807	834248AA	84449B16	10343FAE	78472ACA	7A50B1B5	03350D00	00000000	5DC77C54	58D04DC4
47	( 760 )	454FA85C	7341901D	80C218A3	50418CA9	5850AF0A	6FA2C51A	0C4E5EF6	8342F8A6	8444A4E1B	743A7FE1
48	( 800 )	8547F284	78505FC2	00350D00	00000000	5DCFC843	59D0D7D5	454F5CAA	73410C61	5DC28C99	5041D8B8
49	( 840 )	5850C3D0	6E42D6DB	0C4E0113	834250A7	854418D8	54845A05	8A412123	785067A4	0D350D00	00000000
50	( 880 )	5CCF6409	59D05CEB	444F10FE	73416467	5DC213AA	504108DD	58505285	6F428E8C	0C4E1E41	834230A5
51	( 920 )	85442AC0	F03789DE	C9417E00	7A50AD4C	F2340D00	00000000	5CCFC827	59D0C1D0	444F2C0C	7341E032
52	( 1000 )	5CC2BA96	5041AC26	58508098	6042010B	0D4ED968	8342A8A5	854470C0	2B3B0590	2441CF32	7A50448E
53	( 1040 )	F70E8000	00000000	8FCF8810	SAD008EE	444F9893	7341742B	53C28D86	514160AC	5850B129	60428203
54	( 1080 )	0D4EA360	8442D843	85449D0D	3C38BD8D	6A3A150F	7A508FA9	140B0D00	00000000	5ECF20F9	5AD016FC
55	( 1120 )	444FE431	73410037	5CC2EE8D	5141389E	5A507939	6E429875	0D4E4857	84421843	8544E8A9	A63A3D91
56	( 1160 )	6045B65F	7950A195	580B0D00	00000000	5E5CF30C	59D02E08	444F5C0E	7341940F	5CC2F09F	5141C898
57	( 1200 )	585044C8	6E422FCC	0D4FE0DE	7341D0C1	5CC228C7	5141D891	1043AE9C	795038D2	580B0D00	00000000
58	( 1240 )	5ECF10DF	59D0A61D	474FE0DE	7341D0C1	5CC228C7	5141D891	1043AE9C	795038D2	580B0D00	00000000
59	( 1280 )	85444C85	E038D8E6	A5403C3E	79505377	450B0D00	00000000	59CFECCA	59D0C05B	464F742F	7341543F
60	( 1320 )	5CC227BF2	5141008D	58503D46	6E42F8F7	0C4E400B	84423843	8544008D	8B36D01C	644031E7	7A50073C
61	( 1360 )	C2A0A0D0	00000000	59CF38A7	5AD03729	464F9C7E	73417015	5CC28BF6	51412475	53509F76	6E4281FE
62	( 1400 )	0C4EA562	8442C841	854459FF	51B93927	7F405E30	7A506EED	3F090D00	00000000	59CF6C64	5AD05577
63	( 1440 )	454FDC4A	73418818	5CC228B0	51411881	53508F49	6E4274F2	0C4EB273	84420848	854493F2	95389E9C

6760	1700EB61	1D00ACC	78000692	0F005106	0000E275	07008837	0600CA7B	888301C2	0700C71A	3F001277
6800	616D0000	00000000	23007491	080040FS	09008410	01000C1F	1700AC6E	1D006CF1	7800AF41	0F00FAFA
684C	0000867C	07003830	0600C47D	AG822204	0200062A	3F00F77F	686D0000	00000000	23004CA3	1800B9DA
6880	090050E9	0100C01C	1700A946	1D009483	7800BD8D	0C000727	00001562	07001032	F9007884	8003C194
6920	7F005A51	3F000305	1C6D0000	00000000	230038F2	17003639	08008435	0000848A	17009080	1D00D88C
6960	78C0D04E	0B00F0F	1F00E63E	0700C04F	F900788A	7E82450C	70007D1E	38008C4B	186D0000	00000000
7000	22030C0B	1700EF58	0F00E8D4	0000C079	1700BF00	1D00E898	7800EF0C	08000709	1F002390	0700504D
7040	F9001R8F	9383A109	480015CA	47004DC9	9B00F000	00000000	2200F4A1	6800D660	0800AD74	0000C87C
7080	1700A8D1	1D008C85	7800953E	0D006038	1F0098A5	0700704D	F90008A8	9882223C	450069E8	470070D8
7120	913F0000	00000000	3000EC7F	68001C20	0F00A06C	0100AC95	170056D1	1C0018B5	7800559D	0D001F7D
7160	1F003CC5	07003857	F9000305	20202589	48001F04	4800004A	970F0000	00000000	3C003864	6800FB24
7200	33001908	48007ECE	CC0F0000	00000000	3C0070AE	670066E6	0F00302F	01006C9C	170039D5	02008CB7
7240	0F00202C	0100D492	17002FCE	62008C8D	F90078DE	528D6323	3400EFCE	49004278	CC0F0000	00000000
7280	7A002315	0C00AA17	00007F32	0700D04C	1700FE8D	0200588E	7A006B24	0C00E564	1F0050EF	07006849
7360	F90005DE	078E3D8A	2A00FBC9	480065DD	11290000	00000000	3F004CE2	6700C41C	080060E1	0100EF87
7400	17006CB4	0200A09D	7A007E66	0F003B9D	1F00F6AF	07C0D848	F9003D00	7801E6A1	1600C839	4800145A
7440	23290000	00000000	3F00A4AE	6700CA3F	08006C2F	01009C82	170029C3	0200B49A	75003562	0F0067D5
7480	1F0095B1	07007049	F90093CF	8B00394F	80004FBC	48006C5A	21290000	00000000	3F00FC67	7800AB92
7520	0800442F	010070B4	080053CA	0200548A	75000358	0F0045D3	1F00F8A7	07000048	F90072C1	CC003707
7560	1F003D94	4800A6FC	2F290000	00000000	3E00401D	78003669	0800D45E	0100D456	080067C5	0200948F
7600	7500963B	0F006039	00002D52	07002846	F90002CA	8603A419	1800404A	48005F43	31290000	00000000
7640	390058A1	7800732E	0F00286C	0100049C	080058D9	0300447B	74003AD8	0F003A4B	0000B960	0700B841
7680	F9001AD5	1C00F611	1D001E72	48002C8E	33290000	00000000	390068E3	78007420	0E001021	01002090
7720	0B0048DA	0300787A	7700087A	0F006502	00009468	0700R040	F9001FDE	6A83E3DE	0000CE25	4800941B
7800	0000BE6A	07005042	FE009920	958037FD	0300AC37	4800F977	17290000	00000000	3A004CA6	780095FF
7840	0C00F0AA	010024FF	0800C3C6	02004084	74003031	0F00515B	0000B48F	0700505B	FE0021E5	49805584
7880	3C003EAD	48006883	11290000	00000000	3A00889D	79009123	0F0098EB	0100F4E3	0800A4C2	0200489C
7920	74001754	0C00A794	00009CB0	0700A85B	FE009EE6	0C826D18	2D0036EF	49002B54	00000000	00000000
7960	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
8000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
8040	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
8080	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
8120	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
8160	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

FILE	INPUT RECS.	DATA RECS.	MAX. SIZE	READ ERROR SUMMARY	PERM ZERO	SHORT	UNDEF.	INPUT RETRIES
2	3024	3025	8192	0 0 0	0	0	0	0
FILE 3	RECORD	1 LENGTH	80BYTES					
( 0)	454F4631	50494F4E	31312E42	20202020	2050494F	4E313130	30303130	30303130
( 40)	302C3837	32363020	30303030	33303234	44454356	4D534241	20202020	20202020

FILE	INPUT RECS.	DATA RECS.	MAX. SIZE	READ ERROR SUMMARY	PERM ZERO	SHORT	UNDEF.	INPUT RETRIES
3	2	3	80	0 0 0	0	0	0	0
FILE 3	RECORD	2 LENGTH	80BYTES					
( 0)	454F4632	46303831	39323038	20202020	20202020	20202020	20202020	20202020
( 40)	20202020	20202020	20203030	20202020	20202020	20202020	20202020	20202020

EOJ DUMP STOPPED AFTER FILE 3 # OF PERMANENT READ ERRORS 0

START TIME 12/10/87 16:24:18 STOP TIME 12/10/87 16:28:02

PRINTED IN U.S.A.

\$ \$

PIONEER 11  
TRAJECTORY EPHEMERIS  
73-019A-00G

THIS DATA SET CONSISTS OF ONE MAGNETIC TAPE. THE TAPE IS 9-TRACK,  
6250 BPI, ASCII, WITH A VAX STANDARD LABEL, AND 37 FILES OF DATA.  
THE TAPE WAS CREATED ON AN IBM 360 COMPUTER. THE D AND C NUMBER  
ALONG WITH ITS TIME SPAN IS AS FOLLOWS:

D#	C#	TIME SPAN
D-85884	C-29142	04/06/73-01/01/90

VOL LABEL=TRJP11





```

1 $NOP
2 $NOP
3 $NOP
4 $EXE IPLIST BS
5 INPUT PARAMETERS ARE: AS SR=1 1 1 1
6
7 TAPE NO. 1 FILE NO. 1
8 RECORD 1 LENGTH 8
9 VOLTRJP11 D%8444001011 3
10
11 ***** JOB DONE.
12 $EXE TPUMP BS
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62

```

----- LIST OF KMECFS